



National Highway Traffic Safety Administration

## Dear Crash Data Researchers/Users:

Thank you for choosing crash data from the National Highway Traffic Safety Administration (NHTSA) for your research or other use. The information contained in this motor vehicle crash report is collected, maintained and distributed in accordance with Public Law 89-564. In accordance with this Public Law, NHTSA is required not to release any case information until completion of quality control procedures. These procedures include a review of the case material to extract all names, licenses and registration numbers, non-coded interview material, non-research related researcher comments in the margins, non-factual data, and the production number portion of the vehicle identification number (VIN).

If you requested NHTSA to query its database files in order to identify a specific crash, then that query was made using non-personal descriptors you provided for use in our search. This motor vehicle crash may have been identified from a data search and matches the general, non-personal descriptors you provided, but we cannot confirm that this is the specific crash report you requested.

If you have any questions with regard to the above procedures, please contact the Field Operations Branch, Crash Investigation Division, National Center for Statistics and Analysis at 202-366-4820. Again, please be advised that we cannot confirm that this is the case that you have specifically requested nor can we certify the information to be correct.

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## **CASE SUMMARY**

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

PSU 72

Administration

CASE NO. 253K

TYPE OF ACCIDENT Two Cars/Rear End

## A. DESCRIPTION OF THE ACCIDENT SEQUENCE AND ACCIDENT PECULIARITIES

(Provide a summary of the accident sequence as well as any particular event of the accident that is noteworthy. Injury mechanism and vehicle crashworthiness is the focus, not driver culpability. <u>Do not include any personal identifiers.</u>)

Vehicle #1 was traveling eastbound on a six lane divided expressway in the first lane. Vehicle #2 was stopped facing eastbound on the same six lane divided expressway also in the first lane. Vehicle #1 struck the back of Vehicle #2. Both vehicles were towed and the driver of Vehicle was transported to the hospital.

	B. VEHICLE PROFILE(S)									
	Class		Most Severe Damage Based on Vehicle Inspection		Based on Vehicle Inspection					
Vehicle No.	of Vehicle	Year/Make/Model	Damage Plane	Severity Description	Component Failure					
01	Full Size	1986/Buick/LaSabre	Front	Moderate	None					
02	Subcompact	1985/Ford/Escort	Back	Severe	None					
					^					

DO NOT SANITIZE THIS FORM

	C. PERSON PROFILE(S)										
Vehicle		Seat	Restraint	Most Severe Injury (TO BE COMPLETED BY ZONE CENTER)							
No.	Role	Position	Use	Body Region	Injury Type	AIS	Injury Source				
01 01 02	Driver Passenger Driver	Front-Left Front-Right Front=Left	None None	Not Inju Not Inju Tooth	red red fx	1	unknown				
			·								
	i e										
	·										
		. *									

## **Body Region**

Abdomen Ankle—foot Arm (upper)

Back-thoracolumbar spine

Brain
Chest
Ears
Eye
Elbow
Face
Forearm
Head — skull
Heart
Kidneys
Knee

Lower limbs(s) (whole or unknown part)

Mouth

Liver

Leg (lower)

Neck-cervical spine

Nose

Pelvic-hip

Pulmonary—lungs

Shoulder Spleen Thigh

Thyroid, other endocrine gland Upper limb(s) (whole or unknown

part) Vertebrae Whole body Wrist-hand

## Injury Type

Abrasion Amputation Avulsion Burn Concussion Contusion Crush

Detachment, separation

Dislocation

Fracture

Fracture and dislocation

Laceration Other

Perforation, puncture

Rupture Sprain Strain

Total severance, transection

Unknown

## **Abbreviated Injury Scale**

(1) Minor injury

(2) Moderate injury

(3) Serious injury

(4) Severe injury

(5) Critical injury

(6) Maximum (untreatable)

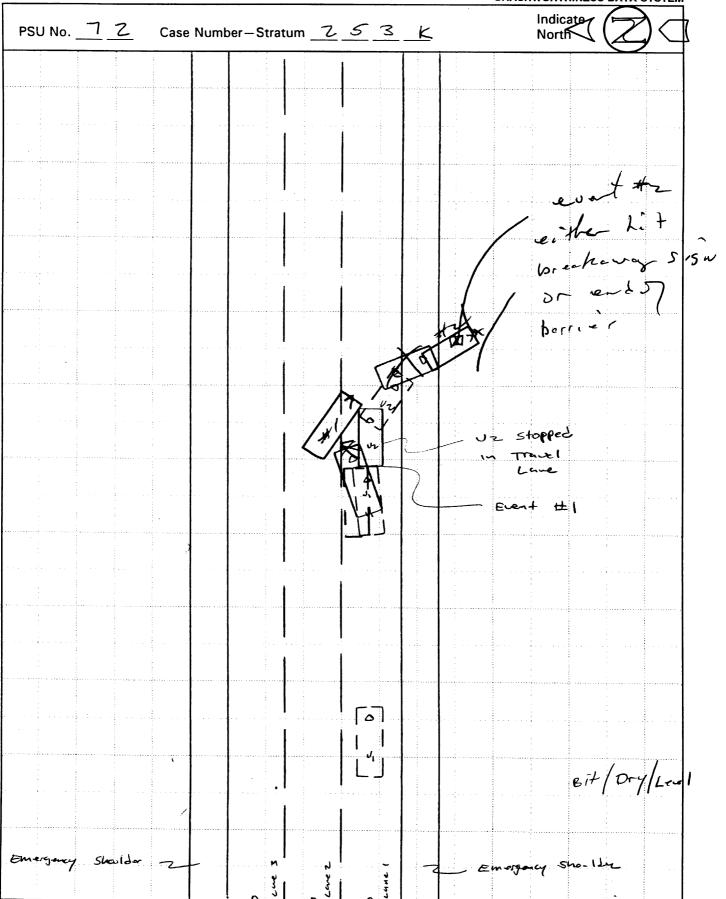
(7) Injured, unknown severity

## DO NOT SANITIZE THIS FORM



# **ACCIDENT COLLISION DIAGRAM**

National Highway Traffic Safety Administration NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM





U.S. Department of Transportation National Highway Traffic Safety

# **ACCIDENT COLLISION**

**MEASUREMENT TABLE** NATIONAL ACCIDENT SAMPLING SYSTEM Administration CRASHWORTHINESS DATA SYSTEM Case Number-Stratum Z 5 3 /C **ACCIDENT COLLISION DIAGRAM** LEVEL I LEVEL II (Cont'd) **CRASH DATA** PHYSICAL EVIDENCE ABSENT physical evidence is present: VEH. #1 VEH. #2 VEH. #3 To be accomplished when there is no \* document reference point and reference physical evidence present at the scene: line relative to physical features present at the scene Heading Angle approximate vehicle orientation at impact and final rest scale documentation of all accident induced physical evidence \* applicable road/roadway delineation (e.g., Surface Type curbs/edge lines, lane markings, median scaled documentation of all roadside markings, pavement markings, etc.) objects contacted Surface \* applicable traffic controls (e.g., speed roadway surface type and condition of Condition limit) applicable roadways \* north arrow placed on diagram grade measurements for all applicable Grade (v/h) roadways and at location of rollover Measurement \* sketch required initiation (between impact and final rest) scaled representations of the vehicle(s) at LEVEL II pre-impact, impact, and final rest based PHYSICAL EVIDENCE PRESENT upon either: Grade (v/h) Measurement In addition to the level I tasks noted above, a) physical evidence, or (at location of the following must be accomplished when rollover initiation) b) reconstructed accident dynamics Reference Point: NO Reference line: Distance and Direction Distance and Direction Item from Reference Point from Reference Line

Item	Distance and Direction from Reference Point	Distance and Direction from Reference Line
		•



National Highway Traffic Safety Administration

## **ACCIDENT FORM**

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number

フマ

2. Case Number - Stratum

253K

## **IDENTIFICATION**

3. Number of General Vehicle Forms Submitted

02

4. Date of Accident (Month, Day, Year)



5. Time of Accident

0625

Code reported military time of accident.

NOTE: Midnight = 2400

Unknown = 9999

## **SPECIAL STUDIES - INDICATORS**

Check ( ) each special study (SS14-SS18 below) that has been completed; code 1 for the checked special studies and 0 for the special studies not checked.

6. \_\_\_SS14 Fatal AOPS

0

7. \_\_\_SS15 Administrative Use

C

8. \_\_\_SS16 \_\_\_\_

0

9. \_\_\_\_SS17 \_\_\_\_\_

0

10. \_\_ SS18

0

## **NUMBER OF EVENTS**

11. Number of Recorded Events in This Accident



Code the number of events which occurred in this accident.

## **ACCIDENT EVENTS**

For each event that occurred in the accident, code the lowest numbered vehicle in the left columns and the other involved vehicle or object on the right.

Accident Event Sequence Number	Vehicle Number	Class Of Vehicle	General Area of Damage	Vehicle Number or Object Contacted	Class Of Vehicle	General Area of Damage
12. <u>0 1</u>	13.	14. <u>0</u> <u>4</u>	15	16. 07	17. <u>O</u>	18B
19. <u>0</u> <u>2</u>	20. 02	21. 0	22.	23. 9 9	24	<u> 25. O</u>
26. <u>0</u> <u>3</u>	27	28	29	30	31	32
33. <u>0 4</u>	34	35	36	37	38	39
40. <u>0</u> <u>5</u>	41	42	43	44	45	46

IF GREATER THAN FIVE EVENTS, CONTINUE CODING ON THE ACCIDENT EVENT SUPPLEMENT

# CODES FOR CLASS OF VEHICLE

- (00) Not a motor vehicle
- (01) Subcompact/mini (wheelbase < 254 cm)
- (02) Compact (wheelbase  $\geq$  254 but < 265 cm)
- (03) Intermediate (wheelbase ≥ 265 but < 278 cm)
- (04) Full size (wheelbase ≥ 278 but < 291 cm)
- (05) Largest (wheelbase ≥ 291 cm)
- (09) Unknown passenger car size
- (11) Compact utility vehicle
- (12) Large utility vehicle (≤ 4,500 kgs GVWR)
- (13) Passenger van (≤ 4,500 kgs GVWR)
- (14) Other van (≤ 4,500 kgs GVWR)
- (15) Pickup truck (≤ 4,500 kgs GVWR)
- (18) Other truck (≤ 4,500 kgs GVWR)
- (19) Unknown light truck type
- (20) School bus
- (21) Other bus
- (22) Truck (> 4,500 kgs GVWR)
- (23) Tractor without trailer
- (24) Tractor-trailer(s)
- (25) Motored cycle
- (28) Other vehicle
- (99) Unknown

# CODES FOR GENERAL AREA OF DAMAGE (GAD)

## CDS APPLICABLE AND OTHER VEHICLES

# (0) Not a motor vehicle

- (N) Noncollision
- (F) Front
- (R) Right side
- (L) Left side
- (B) Back
- (T) Top
- (U) Undercarriage
- (9) Unknown

# TDC APPLICABLE VEHICLES

- (0) Not a motor vehicle
- (N) Noncollision
- (F) Front
- (R) Right side
- (L) Left side
- (B) Back of unit with cargo area (rear of trailer or straight truck)
- (D) Back (rear of tractor)
- (C) Rear of cab
- (V) Front of cargo area
- (T) Top
- (U) Undercarriage
- (9) Unknown

# CODES FOR VEHICLE NUMBER OR OBJECT CONTACTED

(01-30) — Vehicle Number

## Noncollision

- (31) Overturn rollover
- (32) Fire or explosion
- (33) Jackknife
- (34) Other intraunit damage (specify):
- (35) Noncollision injury
- (38) Other noncollision (specify):
- (39) Noncollision details unknown

#### Collision With Fixed Object

- (41) Tree (≤ 10 cm in diameter)
- (42) Tree (> 10 cm in diameter)
- (43) Shrubbery or bush
- (44) Embankment
- (45) Breakaway pole or post (any diameter)

## Nonbreakaway Pole or Post

- (50) Pole or post (≤ 10 cm in diameter)
- (51) Pole or post (> 10 cm but ≤ 30 cm in diameter)
- (52) Pole or post (> 30 cm in diameter)
- (53) Pole or post (diameter unknown)
- (54) Concrete traffic barrier
- (55) Impact attenuator
- (56) Other traffic barrier (includes guardrail) (specify):

- (57) Fence
- (58) Wall
- (59) Building
- (60) Ditch or culvert
- (61) Ground
- (62) Fire hydrant
- (63) Curb
- (64) Bridge
- (68) Other fixed object (specify):
- (69) Unknown fixed object

## Collision with Nonfixed Object

- (71) Motor vehicle not in-transport
- (72) Pedestrian
- (73) Cyclist or cycle
- (74) Other nonmotorist or conveyance
- (75) Vehicle occupant
- (76) Animal
- (77) Train
- (78) Trailer, disconnected in transport
- (88) Other nonfixed object (specify):
- (89) Unknown nonfixed object
- (98) Other event (specify):
- (99) Unknown event or object

		XOI	· ugo ·
	OCCUPANT RELATED	24. Rollover (0) No rollover (no overturning)	0
	Driver Presence in Vehicle (0) Driver not present (1) Driver present (9) Unknown	Rollover (primarily about the longitudinal ax (1) Rollover, 1 quarter turn only (2) Rollover, 2 quarter turns (3) Rollover, 3 quarter turns	
17.	Number of Occupants This Vehicle (00-96) Code actual number of occupants for this vehicle (97) 97 or more (99) Unknown	(4) Rollover, 4 or more quarter turns (specing process)  (5) Rolloverend-over-end (i.e., primarily about the lateral axis)	fy):
18.	Number of Occupant Forms Submitted 62	(9) Rollover (overturn), details unknown	
	VEHICLE WEIGHT ITEMS	OVERRIDE/UNDERRIDE (THIS VEHIC	LE)
19.	Vehicle Curb Weight	25. Front Override/Underride (this Vehicle)	$\bigcirc$
	10 kilograms. (045) Less than 450 kilograms	26. Rear Override/Underride (this Vehicle)	0
	(610) 6,100 kilograms or more (999) Unknown	(0) No override/underride, or not an end-to-end impact	
	3, 170 lbs X .4536 = $1, 439$ kgs Source:	Override (see specific CDC) (1) 1st CDC (2) 2nd CDC	
20.	Vehicle Cargo Weight Code weight to nearest	(3) Other not automated CDC (specify):	
	10 kilograms. (000) Less than 5 kilograms (450) 4,500 kilograms or more (999) Unknown	Underride (see specific CDC) (4) 1st CDC (5) 2nd CDC (6) Other not automated CDC (specify):	
	, lbs X .4536 =, kgs		
21.	RECONSTRUCTION DATA  Towed Trailing Unit	(7) Medium/heavy truck or bus override (9) Unknown	
	(0) No towed unit (1) Yes—towed trailing unit (9) Unknown	HEADING ANGLE AT IMPACT FO	3
	(o) Olikilowii	HIGHEST DELTA V	
22.	Documentation of Trajectory Data for This Vehicle (0) No (1) Yes	Values: (000)-(359) Code actual value (997) Noncollision (998) Impact with object (999) Unknown	
23.	Post Collision Condition of Tree or Pole (For Highest Delta V)		35
	<ul> <li>(0) Not collision (for highest delta V) with tree or pole</li> <li>(1) Not damaged</li> <li>(2) Cracked/sheared</li> <li>(3) Tilted &lt;45 degrees</li> <li>(4) Tilted ≥45 degrees</li> <li>(5) Uprooted tree</li> <li>(6) Separated pole from base</li> <li>(7) Pole replaced</li> <li>(8) Other (specify):</li> </ul>	28. Heading Angle For Other Vehicle <u>O</u>	00
	(9) Unknown	}	

National Accident Sampling System-Crashworthiness Date	a System: General Vehicle Form 🗸 🗘 🚶 Page 5
OTHER DATA	61. Rollover Initiation Object Contacted
(00000) Driver not present (00001) Driver not a resident of U.S. or territories Code actual 5-digit zip code (99999) Unknown	62. Location on Vehicle Where Initial Principal Tripping Force Is Applied  (0) No rollover (1) Wheels/tires (2) Side plane
57. Driver's Race/Ethnic Origin (0) Driver not present (1) White (non-Hispanic) (2) Black (non-Hispanic) (3) White (Hispanic) (4) Black (Hispanic) (5) American Indian, Eskimo or Aleut (6) Asian or Pacific Islander (8) Other (specify):	(3) End plane (4) Undercarriage (5) Other location on vehicle (specify): (8) Non-contact rollover forces (specify): (9) Unknown
(9) Unknown  58. Vehicle Special Use (This Trip) (0) No special use (1) Taxi (2) Vehicle used as school bus (3) Vehicle used as other bus (4) Military (5) Police (6) Ambulance	<ul> <li>(0) No rollover</li> <li>(1) Roll right - primarily about the longitudinal axis</li> <li>(2) Roll left - primarily about the longitudinal axis</li> <li>(5) End-over-end (i.e., primarily about the lateral axis)</li> <li>(9) Unknown roll direction</li> </ul>
<ul><li>(7) Fire truck or car</li><li>(8) Other (specify):</li></ul>	PRECRASH DATA
(9) Unknown	64. Pre-Event Movement (Prior to Recognition of Critical Event)
ROLLOVER DATA	(01) Going straight
If GV07 (Body Type) ≠ 1-49, leave GV59-GV63 blank.  If GV24 (Rollover) = 0, then GV59-GV63 must equal 0.  If GV24 = 9, then GV59-GV63 must equal 9.  59. Rollover Initiation Type  (0) No rollover  (1) Trip-over  (2) Flip-over  (3) Turn-over  (4) Climb-over  (5) Fall-over  (6) Bounce-over  (7) Collision with another vehicle  (8) Other rollover initiation type specify):  (9) Unknown rollover initiation type	<ul> <li>(01) Going straight</li> <li>(02) Slowing or stopping in traffic lane</li> <li>(03) Starting in traffic lane</li> <li>(04) Stopped in traffic lane</li> <li>(05) Passing or overtaking another vehicle</li> <li>(06) Disabled or parked in travel lane</li> <li>(07) Leaving a parking position</li> <li>(08) Entering a parking position</li> <li>(09) Turning right</li> <li>(10) Turning left</li> <li>(11) Making a U-turn</li> <li>(12) Backing up (other than for parking position)</li> <li>(13) Negotiating a curve</li> <li>(14) Changing lanes</li> <li>(15) Merging</li> <li>(16) Successful avoidance maneuver to a previous critical event</li> <li>(97) Other (specify):</li> </ul>
60. Location of Rollover Initiation	(98) No driver present (99) Unknown
<ul> <li>(0) No rollover</li> <li>(1) On roadway</li> <li>(2) On shoulder—paved</li> <li>(3) On shoulder—unpaved</li> <li>(4) On roadside or divided trafficway median</li> </ul>	

(9) Unknown

# CODES FOR ROLLOVER INITIATION OBJECT CONTACTED

(00) No rollover	(57) Fence
(01-30) — Vehicle Number	(58) Wall
	(59) Building
Noncollision	(60) Ditch or culvert
(31) Turn-over — fall-over	(61) Ground
(33) Jackknife	(62) Fire hydrant
	(63) Curb
Collision With Fixed Object	(64) Bridge
(41) Tree (≤ 10 cm in diameter)	
(42) Tree (> 10 cm in diameter)	(68) Other fixed object (specify):
(43) Shrubbery or bush	(00)
(44) Embankment	(69) Unknown fixed object
(44) Embankment	<b>A</b>
(AE) Beechesses and a second to the second	Collision with Nonfixed Object
(45) Breakaway pole or post (any diameter)	(71) Motor vehicle not in-transport
N 1 1 5 5	(76) Animal
Nonbreakaway Pole or Post	(77) Train
(50) Pole or post (≤ 10 cm in diameter)	(78) Trailer, disconnected in transport
(51) Pole or post (> 10 cm but ≤ 30 cm in diameter)	(88) Other nonfixed object (specify):
(52) Pole or post (> 30 cm in diameter)	(89) Unknown nonfixed object
(53) Pole or post (diameter unknown)	(ac) common nomixed object
•	(98) Other event (specify):
(54) Concrete traffic barrier	(00) Other event (specify).
(55) Impact attenuator	(99) Unknown event or object
(56) Other traffic barrier (includes guardrail)	(33) Onknown event or object
(specify):	
/abeouty).	



National Highway Traffic Safety

# **EXTERIOR VEHICLE FORM**

NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

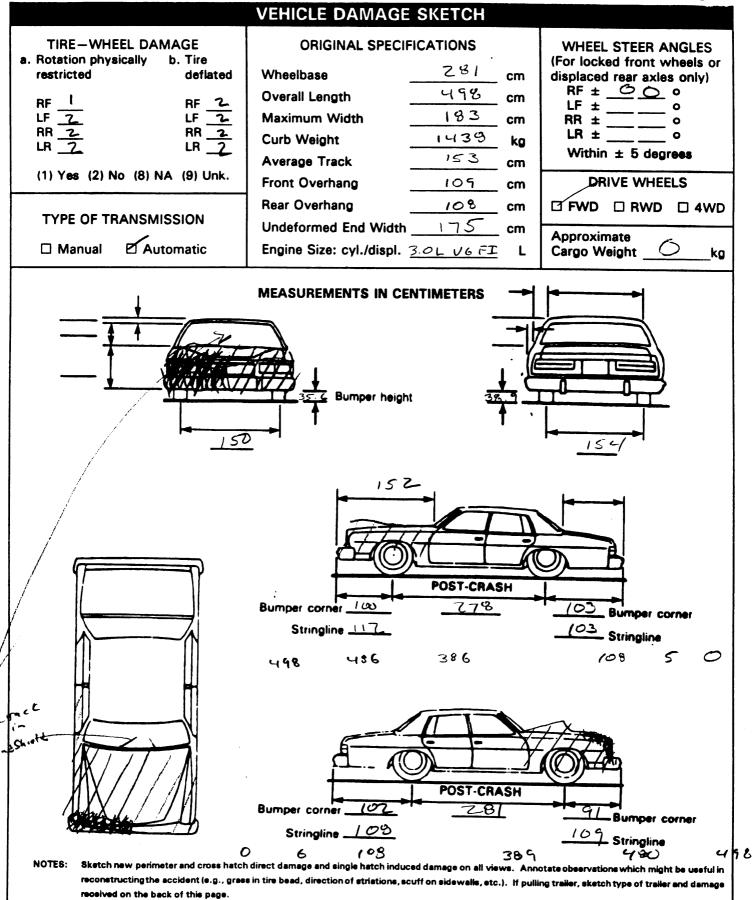
Administration								CRASH	WUKI HIN	ESS DATA	STSTEM
1. Primar	ry Sampling Unit Nu	mber	77	3.	Vehicle	Numbe	er			<u>C</u>	上
2. Case I	Number - Stratum	2	K								
			VEHICLE I	DENTI	FICATI	ON					
VEHICLE IDENTIFICATION											
1	<u>64 4 P</u>			1/2-2-1-1	,			A CONTRACTOR	Model Y		
Vehicle Ma	ake (specify):	3 UICK	<b>-</b>	· .	Vehicle	Model (s	specify):		7 59	bre	
			LC	CATO	R						
	e end of the damage amaged axle for side		ct to the veh	nicle long	gitudinal	center	line or b	umper o	corner fo	or end ir	npacts
	mpact No.	<del> </del>	of Direct Da	amage			Lo	ocation (	of Field	L	
С	ol Begins	s of Gent	ler + Co	ations	90cm	Bry	por C	مسعر	70 Bu	per C	ever
		1 1.54+				V			·		
		CRU	SH PROFI	LE IN (	CENTIN	<b>JETER</b>	S				
	dentify the plane at				taken	(e.g., at	bumper	r, above	bumpe	r, at sill	, above
S	sill, etc.) and label a	ajustments	(e.g., tree s	pace).						163	
ľ	Measure and docum	ent on the v	vehicle diagi	ram the	location	of max	imum cı	rush.		763	
1	Measure C1 to C6 f mpacts.	rom driver to	o passenger	side in	front or	rear im	pacts ar	nd rear t	o front	in side	
F	Free space value is	defined as tl	he distance	betweer	n the ba	seline a	nd the o	original I	body co	ntour ta	ken at
t	he individual C loca side taper, etc. Rec	tions. This	may include	e the fol	lowing:	bumper	lead, b	umper t			
								orașii.			
	Jse as many lines/c			describ	e each o	damage	profile.	r			<del></del>
Specific	Plane of Impact	Direct D		Field							
Impact Number	C-Measurements	Width (CDC)	Max Crush	L	C,	C <sub>2</sub>	C <sub>3</sub>	C₄	C <sub>E</sub>	C <sub>e</sub>	±D
01	Front Burger	90	14	163	11	6	5	8	14	13	+45
01	Freespace		6	ļ	11	6	5	5	6	1 (	
01	Rosu (tend		8		0	D	0	3	3	7	
									<u> </u>		
0(	Above Front Bupor	90	64	163	24	16	19	44	50		+45
01	Free space		24		24	16	18	13	16	24	
01	Rosultent		40		0	0	0	26	34	40	
,											
01	Rosultent	90	24	163	0	0	٥	14.5	21	23.5	445

# ORIGINAL SPECIFICATIONS WORK SHEET

	1					_
Wheelbase	110.3	inches	X	2.54	=	$\frac{28}{\text{cm}}$
Overall Length	196.2	inches	X	2.54	=	-498 cm
Maximum Width	_72.1	inches	x	2.54	=	<u>  83</u> cm
Curb Weight	3,170	pounds	X	.4536	=	1, 438 kg
Average Track 60.3-54.8	60.1	inches	x	2.54	=	<u> </u>
Front Overhang 43 3-42.7	_ 42.8	inches	x	2.54	=	
Rear Overhang 42.5-42.4	_ 42.6	inches	X	2.54	=	
Undeformed End Width	<u> </u>	inches	X	2.54	=	cm
Engine Size: cyl./displ.		сс	x	.001	=	L
		CID	х	.0164	=	L

2 (187

RBH 157



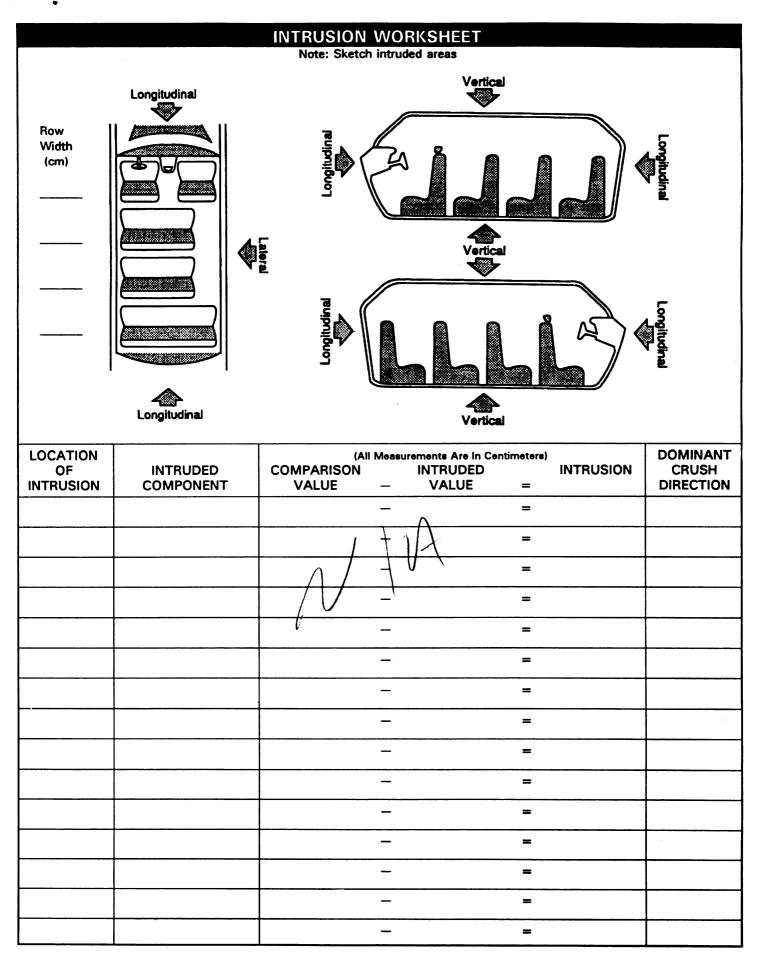
Annotate any damage caused by extrication such as component removal by torching, prying, or hydraulic shears.

			CDC V	VORKSHE	-						
CODES FOR OBJECT CONTACTED											
(01-30)	- Vehicle Nu	mber		(57	') Fence						
				(58	3) Wall						
Noncoll	ision			(59	) Building						
(31)	Overturn - ro	ollover			)) Ditch or	culvert					
(32)	Fire or explosi	(61	) Ground								
(33)	Jackknife					Fire hydrant					
(34)	Other intrauni	t damage (specif	<sup>(</sup> y):		3) Curb						
					l) Bridge						
	Noncollision in			(68	3) Other fix	ed object (s	pecify):				
(38)	Other noncolli	sion (specify):		100		- 6: 1 - 1-:-					
(00)				_ (68	) Unknow	n fixed obje	ct				
(39)	Noncollision -	<ul> <li>details unknov</li> </ul>	vn	Callia	:iala Ala	afinad Ohia	-4				
0.00	- Mark Fr J. O	da tarak				onfixed Obje ehicle not in					
	n With Fixed O			•	•		-transport				
	Tree (≤ 10 cr				2) Pedestria 3) Cyclist c						
	Tree (> 10 cr Shrubbery or						r conveyanc	۵.			
	Embankment	DUSII		(/-	t) Other no	iniotorist o	Conveyanc				
(44)	Ellipalikillelit			175	Vehicle	occupant					
(45)	Breakaway no	ole or post (any o	liameter)		6) Animal	occupant					
(43)	Dieakaway pu	ne or post tarry t	nameter,		7) Train						
Nonbre	akaway Pole o	r Post				disconnected	d in transpor	<b>t</b>			
		≤ 10 cm in dian	neter)			onfixed object					
		> 10 cm but ≤		,	.,						
(0.7	diameter)			(89) Unknown nonfixed object							
(52)		> 30 cm in dian	neter)	,							
		diameter unknov		(98) Other event (specify):							
(54)	Concrete traff	fic harrier		(99) Unknown event or object							
	Impact attenu			(0.	o, omenow		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
		parrier (includes	guardrail)								
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(specify):	•									
DEFORMATION CLASSIFICATION BY EVENT NUMBER											
		DEFORMA'	TION CLASS	IFICATION E	BY EVENT N	IUMBER					
		DEFORMA <sup>*</sup>	TION CLASS	IFICATION E	(4)	(5)					
Accident	ı.	(1) (2)			(4) Specific	(5) Specific	(6)	(7)			
Event		(1) (2) Direction	Incremental	(3)	(4) Specific Longitudinal	(5) Specific Vertical or	Type of	(7)			
Event Sequence	e Object	(1) (2) Direction of Force	Incremental Value of	(3) Deformation	(4) Specific Longitudinal or Lateral	(5) Specific Vertical or Lateral	Type of Damage	Deformation			
Event	e Object	(1) (2) Direction	Incremental	(3)	(4) Specific Longitudinal or Lateral Location	(5) Specific Vertical or	Type of				
Event Sequence	e Object Contacted	(1) (2) Direction of Force	Incremental Value of	(3) Deformation	(4) Specific Longitudinal or Lateral Location	(5) Specific Vertical or Lateral Location	Type of Damage	Deformation			
Event Sequence	e Object	(1) (2) Direction of Force	Incremental Value of	(3) Deformation Location	(4) Specific Longitudinal or Lateral	(5) Specific Vertical or Lateral	Type of Damage	Deformation			
Event Sequence	e Object Contacted	(1) (2) Direction of Force	Incremental Value of	(3) Deformation Location	(4) Specific Longitudinal or Lateral Location	(5) Specific Vertical or Lateral Location	Type of Damage	Deformation			
Event Sequence	e Object Contacted	(1) (2) Direction of Force	Incremental Value of	(3) Deformation Location	(4) Specific Longitudinal or Lateral Location	(5) Specific Vertical or Lateral Location	Type of Damage	Deformation			
Event Sequence	e Object Contacted	(1) (2) Direction of Force	Incremental Value of	(3) Deformation Location	(4) Specific Longitudinal or Lateral Location	(5) Specific Vertical or Lateral Location	Type of Damage	Deformation			
Event Sequence	e Object Contacted	(1) (2) Direction of Force	Incremental Value of	(3) Deformation Location	(4) Specific Longitudinal or Lateral Location	(5) Specific Vertical or Lateral Location	Type of Damage	Deformation			
Event Sequence	e Object Contacted	(1) (2) Direction of Force	Incremental Value of	(3) Deformation Location	(4) Specific Longitudinal or Lateral Location	(5) Specific Vertical or Lateral Location	Type of Damage	Deformation			
Event Sequence	e Object Contacted	(1) (2) Direction of Force	Incremental Value of	(3) Deformation Location	(4) Specific Longitudinal or Lateral Location	(5) Specific Vertical or Lateral Location	Type of Damage	Deformation			
Event Sequence	e Object Contacted	(1) (2) Direction of Force	Incremental Value of	(3) Deformation Location	(4) Specific Longitudinal or Lateral Location	(5) Specific Vertical or Lateral Location	Type of Damage	Deformation			
Event Sequence	e Object Contacted	(1) (2) Direction of Force	Incremental Value of	(3) Deformation Location	(4) Specific Longitudinal or Lateral Location	(5) Specific Vertical or Lateral Location	Type of Damage	Deformation			
Event Sequence	e Object Contacted	(1) (2) Direction of Force	Incremental Value of	(3) Deformation Location	(4) Specific Longitudinal or Lateral Location	(5) Specific Vertical or Lateral Location	Type of Damage	Deformation			
Event Sequence	e Object Contacted	(1) (2) Direction of Force	Incremental Value of	(3) Deformation Location	(4) Specific Longitudinal or Lateral Location	(5) Specific Vertical or Lateral Location	Type of Damage	Deformation			
Event Sequence	e Object Contacted	(1) (2) Direction of Force	Incremental Value of	(3) Deformation Location	(4) Specific Longitudinal or Lateral Location	(5) Specific Vertical or Lateral Location	Type of Damage	Deformation			
Event Sequence	e Object Contacted	(1) (2) Direction of Force	Incremental Value of	(3) Deformation Location	(4) Specific Longitudinal or Lateral Location	(5) Specific Vertical or Lateral Location	Type of Damage	Deformation			

National Highway Traffic Safety

# INTERIOR VEHICLE FORM NATIONAL ACCIDENT SAMPLING SYSTEM

dministration	CRASHWORTHINESS DATA SYSTE
77	GLAZING
1. Primary Sampling Unit Number 72	Glazing Damage from Impact Forces
2. Case Number - Stratum 2531	15. WS 216. LF 217. RF 18. LR 219. RR
3. Vehicle Number	20. BL <u> </u>
INTEGRITY	
4. Passenger Compartment Integrity (00) No integrity loss  Yes, Integrity Was Lost Through (01) Windshield (02) Door (side) (03) Door/hatch (back door) (04) Roof	<ul> <li>(O) No glazing damage from impact forces</li> <li>(2) Glazing in place and cracked from impact forces</li> <li>(3) Glazing in place and holed from impact forces</li> <li>(4) Glazing out-of-place (cracked or not) and not holed from impact forces</li> <li>(5) Glazing out-of-place and holed from impact forces</li> <li>(6) Glazing disintegrated from impact forces</li> <li>(7) Glazing removed prior to accident</li> <li>(8) No glazing</li> <li>(9) Unknown if damaged</li> </ul>
(05) Roof glass (06) Side window (07) Rear window (backlight) (08) Roof and roof glass	Glazing Damage from Occupant Contact
(09) Windshield and door (side)	23. WS24. LF25. RF26. LR27. RR
(10) Windshield and roof (11) Side and rear window (side window and backlight) (12) Windshield and side window (13) Door and side window (98) Other combination of above (specify): (99) Unknown  Door, Tailgate or Hatch Opening  5. LF	28. BL 29. Roof 30. Other  (0) No occupant contact to glazing or no glazing (1) Glazing contacted by occupant but no glazing damage (2) Glazing in place and cracked by occupant contact (3) Glazing in place and holed by occupant contact (4) Glazing out-of-place (cracked or not) by occupant contact and not holed by occupant contact (5) Glazing out-of-place by occupant contact and holed by occupant contact (6) Glazing disintegrated by occupant contact (9) Unknown if contacted by occupant  If No Glazing Damage And No Occupant Contact or No Glazing, Then Code IV31 Through IV46 As Ø
(3) Door/gate/hatch jammed shut	Type of Window/Windshield Glazing
(8) Other (specify):	31. WS 32. LF 33. RF 334. LR 35. RR
(9) Unknown	36. BL 2 37. Roof 2 38. Other 2
Damage/Failure Associated with Door, Tailgate or Hatch Opening in Collision. If IV05-IV09 ≠ 2, Then code Ø  10. LF 11. RF 12. LR 13. RR 14. TG/H	(0) No glazing contact and no damage, or no glazing (1) AS-1 — Laminated (2) AS-2 — Tempered (3) AS-3 — Tempered-tinted (4) AS-14 — Glass/Plastic (8) Other (specify):
(O) No door/gate/hatch or door not opened	(9) Unknown
Door, Tailgate or Hatch Came Open During Collision  (1) Door operational (no damage)  (2) Latch/striker failure due to damage  (3) Hinge failure due to damage  (4) Door structure failure due to damage  (5) Door support (i.e., pillar, sill, roof side rail, etc.) failure due to damage  (6) Latch/striker and hinge failure due to damage  (8) Other failure (specify):	Window Precrash Glazing Status  39. WS 40. LF 41. RF 42. LR 43. RR  44. BL 45. Roof 46. Other  (0) No glazing contact and no damage, or no glazing (1) Fixed (2) Closed (3) Partially opened
	(4) Fully opened (9) Unknown



#### OCCUPANT AREA INTRUSION Note: If no intrusions, leave variables IV47-IV86 blank. INTRUDING COMPONENT Interior Components Dominant Location of Intruding Magnitude Crush (01) Steering assembly Intrusion of Intrusion Direction Component (02) Instrument panel left (03) Instrument panel center (04) Instrument panel right 50. (05) Toe pan 1st 47. 48. 49. (06), A (A1/A2)-pillar (07) B-pillar (08) C-pillar 2nd 51.\_\_\_ 52.\_\_\_ 53. (09) D-pillar (10) Door panel (side) (12) Roof (or convertible top) (13) Roof side rail 57 56. (14) Windshield (15) Windshield header (16) Window frame (17) Floor pan (includes sill) 60. 61. 62. (18) Backlight header (19) Front seat back (20) Second seat back (21) Third seat back 65. (22) Fourth seat back (23) Fifth seat back (24) Seat cushion (25) Back door/panel (e.g., tailgate) 68. **69**. 6th 70. (26) Other interior component (specify): (27) Side panel - forward of the A (A2)-pillar (28) Side panel - rear of the A (A2)-pillar 71.\_\_\_ 72.\_\_ 73.\_\_ 74.\_\_ **Exterior Components** (30) Hood 75.\_\_\_\_ 76.\_\_\_ 77.\_\_\_ 78.\_\_ (31) Outside surface of this vehicle (specify): 8th (32) Other exterior object in the environment (specify): 79.\_\_\_\_ 80.\_\_\_ 81.\_\_\_ 82.\_\_ (33) Unknown exterior object (97) Catastrophic (98) Intrusion of unlisted component(s) (specify): 10th 83. \_\_\_\_ 84.\_\_ \_\_ 85.\_\_ 86.\_\_ (99) Unknown **LOCATION OF INTRUSION** MAGNITUDE OF INTRUSION $(1) \geq 3$ centimeters but < 8 centimeters Fourth Seat Front Seat (2) ≥ 8 centimeters but < 15 centimeters (11) Left (41) Left (3) ≥ 15 centimeters but < 30 centimeters (12) Middle (42) Middle (4) ≥ 30 centimeters but < 46 centimeters (13) Right (43) Right (5) ≥ 46 centimeters but < 61 centimeters (6) ≥ 61 centimeters Second Seat (97) Catastrophic (7) Catastrophic (21) Left (98) Other enclosed (9) Unknown (22) Middle area (specify) (23) Right (99) Unknown DOMINANT CRUSH DIRECTION Third Seat (1) Vertical (31) Left (2) Longitudinal (32) Middle

(3) Lateral

(7) Catastrophic (9) Unknown

(33) Right

STEERING RIM/SPOKE DEFORMATION								
	(All	Messurements Are in Centimet	ers)					
COMPARISON VALUE	_	DAMAGE VALUE	=	DEFORMATION				
10	_	10	=	0				
, )	_	10	=	0				
	_		=					
			=					

1

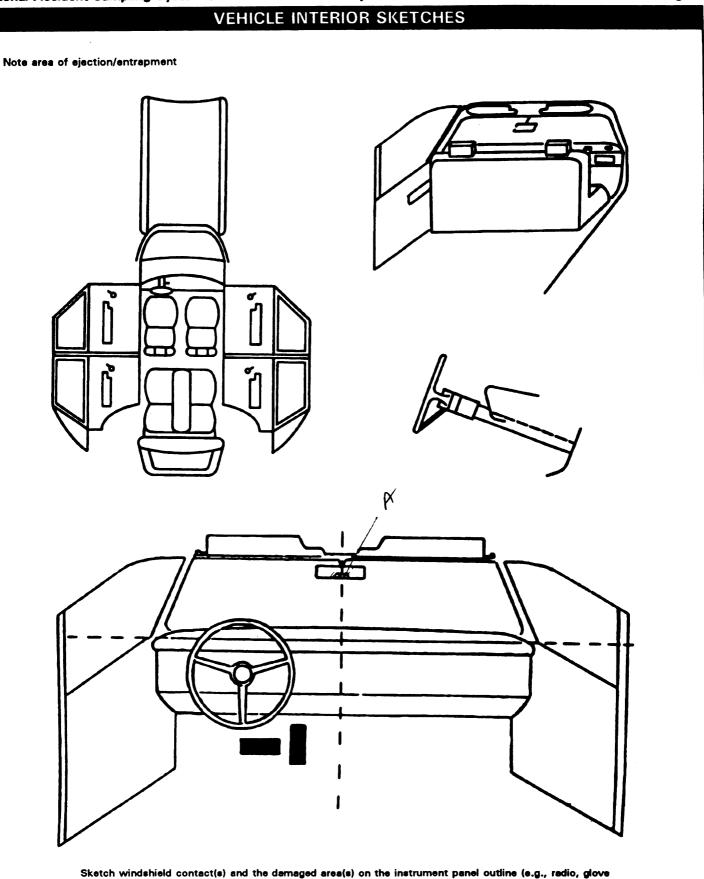
Ô

ST	EERING COLUMN		93.	Location of Steering Rim/Spoke	00
	mn 1			Deformation (00) No steering rim deformation  Quarter Sections (01) Section A (02) Section B (03) Section C (04) Section D	
(9) Unknown				Half Sections (05) Upper half of rim/spoke (06) Lower half of rim/spoke (07) Left half of rim/spoke	Jpper L R e i g f h
88. Blank (This variable is so that numbe can be maintain 1988-93 CDS.	ring consistency ined with the	XX		(08) Right half of rim/spoke  (09) Complete steering wheel col (10) Undetermined location (99) Unknown	lapse
				INSTRUMENT PAN	EL
89. Blank (This variable is so that numbe can be maintal 1988-93 CDS	is left blank ring consistency ined with the	<u> </u>	94.	kilometers—Code to the nearest 1,000 kilometers (000) No odometer (001) Less than 1,500 kilometers (500) 499,500 kilometers or mor (999) Unknown	1 <u>6 7</u> ,000
90. Blank (This variable so that numbe can be mainta 1988-93 CDS	is left blank ring consistency ined with the	XXX		103,507 miles x 1.6093 = 16	6, <u>5 6 6</u> killometere
91. Blank (This variable so that numbe can be mainta 1988-93 CDS	is left blank ring consistency ined with the	xxx	95.	Instrument Panel Damage from Occupant Contact? (0) No (1) Yes (9) Unknown	<u>O</u>
92. Steering Rim/S Code act deformation to (00) No steer	Spoke Deformation tual measured the nearest centimeter ing rim deformation all measured value in centimeter in measured value in centimeter in	00	96.	. Knee Bolsters Deformed from Occupant Contact? (0) No (1) Yes (8) Not present (9) Unknown	<u>&amp;</u>
(15) 15 centi	meters or more d deformation cannot be n		97.	Did Glove Compartment Door Ope During Collision(s)? (0) No (1) Yes (8) Not present (9) Unknown	en <u>O</u>

compartment, damage to instrument panel structure.

Cross hatch contact points, draw spider webs or use other annotation as may be appropriate.

Annotate the contacted area with a letter (begin with A) and list on the Points of Occupant Contact page.



		POII	V15	OF OCC	CUPANT CONTAC	اد		
Contact	Interior Component Contacted	Occupant No. If Known	R	Body legion If nown	Supporting Ph	ysical E	vidence	Confiden Level of Contact Point
Α	07	01	1-	led		tain		)
В		<del></del>	+		, ,			
			+-					
С			-					
D								
E								
F								
G								
Н								
							**************************************	
<u> </u>			-					
J								
Κ								
L								
M							*	<u> </u>
N					<u> </u>			<u> </u>
(02) Mirro (03) Sunv			(25)	Left side v	vindow glass or frame	(47)	•	
(02) Mirro (03) Sunv			(25)	Left side v	vindow glass or frame	(47) (48)		
	ring wheel rim		(26)		vindow glass including	(49) Other interior object		· /amaaifada
	ring wheel hub/spok ring wheel (combine				re of the following: ndow sill, A (A1/A2)-pillar,	(43)	Other interior object	(вресну):
	odes 04 and 05)				roof side rail.	B005		
	ring column, transm ctor lever, other atta		(27)	Other left	side object (specify):	ROOF (50)	Front header	
(08) Add	on equipment (e.g.,		(28)	Left side v	vindow sill	(51)	Rear header	
	i, air conditioner) instrument panel an	d helow	RIGHT	SIDE		(52) (53)	Roof left side rail Roof right side rail	
	er instrument panel				interior surface,		Roof or convertible	top
	t instrument panel a		(04)		hardware or armrests	EI OOR		
(12) Glov	e compartment door bolster	•	(31) (32)		hardware or armrest	FLOOR (56)	Floor (including toe	pan)
(14) Wind	shield including one		(33)	Right B-pil	lar	(57)	Floor or console mo	unted
	ne following: front h .1/A2)-pillar, instrum		(34)	Other righ	t pillar (specify):		transmission lever, i	including
	or, or steering assen	•	(35)	Right side	window glass or frame		Parking brake handl	
	only) dehield including one		(36)	_	window glass including re of the following:	(59)	Foot controls includ	ing parking
• •	ne following: front h				ndow sill, A (A1/A2)-pillar,		Drake	
	1/A2)-pillar, instrum	•	40.51	• -	roof side rail.	REAR	<b>-</b>	
	or (passenger side o er side air bag comp	•	(37)	Other righ	t side object (specify):	(60) (61)	Backlight (rear wind Backlight storage ra	
cove	or		(38)	Right side	window sill	(62)	•	
	enger side air bag partment cover		INTEDI	OR				
	dshield reinforced by	exterior		TERIOR (40) Seat, back support		······································		
•	ct (specify):		(41) Belt restraint webbing/buckle			COMPRESSOR		
(18) Othe	er front object (spec	<b>y</b> );	(42)	Belt restra	•		CONFIDENCE LEV	
			(43)	Other rest	raint system component			-
EFT SIDE (20) Left	side interior surface	la.	(44)	(specify):_ Head rest	raint system		(1) Certain (2) Probable	
exclu	uding hardware or a	rmrests		Airbag (u	use codes "16" and "17"		(3) Possible	
(21) laft	side hardware or an	mraet		for injuries	sustained from air bag		(9) Unknown	

for injuries sustained from air bag

compartment covers)

(9) Unknown

(21) Left side hardware or armrest

(22) Left A (A1/A2)-piller

#### **AUTOMATIC RESTRAINTS** NOTES: Encode the data for each applicable front seat position. The attribute for the variables may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form. AIR BAGS Left Right Availability/Function **Deployment** R S **Failure** Air Bag System Availability/Function Air Bag System Deployment Did Air Bag System Fall? (O) Not equipped/not available (0) Not equipped/not available (0) Not equipped/not available (1) Air bag (1) Air bag deployed during accident (2) Yes (specify): (as a result of impact) Non-functional (2) Air bag deployed inadvertently just (2) Air bag disconnected (specify): prior to accident (9) Unknown (3) Air bag deployed, accident sequence (3) Air bag not reinstalled undetermined (9) Unknown (4) Nondeployed (5) Unknown if deployed (6) Air bag deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (9) Unknown **AUTOMATIC BELTS** Left Right 0 Availability/Function F Use R Type S **Proper Use** 0 **Failure Modes** Automatic (Passive) Belt System Proper Use of Automatic (Passive) Belt Automatic (Passive) Belt Failure Modes **Availability/Function** (0) Not equipped/not available (0) Not equipped/not available/not used (0) Not equipped/not available/not in use (1) 2 point automatic belts (1) Automatic belt used properly (1) No automatic belt failure(s) (2) 3 point automatic belts (2) Automatic belt used properly with (2) Torn webbing (stretched webbing not (3) Automatic belts - type unknown child safety seat included) (3) Broken buckle or latchplate Non-functional Automatic Belt Used Improperly (4) Upper anchorage separated (4) Automatic belts destroyed or (3) Automatic shoulder belt worn under (5) Other anchorage separated (specify): rendered inoperative (9) Unknown (4) Automatic shoulder belt worn behind (6) Broken retractor back (7) Combination of above (specify): Automatic (Passive) Belt System Use (5) Automatic belt worn around more (8) Other automatic belt failure (specify): (O) Not equipped/not available/destroyed than one person or rendered inoperative (6) Lap portion of automatic belt worn (9) Unknown (1) Automatic belt in use on abdomen (2) Automatic belt not in use (manually (7) Automatic lap and shoulder belt or disconnected, motorized track automatic shoulder belt used inoperative) improperly (3) Automatic belt use unknown with child safety seat (specify):

(8) Other improper use of automatic belt

system

(9) Unknown

(specify):

(9) Unknown

Automatic (Passive) Belt System Type

(0) Not equipped/not available

(1) Non-motorized system

(2) Motorized system (9) Unknown

## MANUAL RESTRAINTS

NOTES: Encode the applicable data for each seat position in the vehicle. The attribute for the variable may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Ocupant Assessment Form.

If a Child safety seat is present, encode the data on the back of this page.

If the vehicle has automatic restraints available, encode the appropriate data on the back of the previous page.

		Left	Center	Right
F	Availability	Ц	3	4
R	Use	00	00	00
S T	Failure Modes	0	0	0
S	Availability	3	3	3
SECOND	Use	00	00	00
N D	Failure Modes	D	0	0
T H	Availability			
1	Use			
R D	Failure Modes			
0 T	Availability			
l H	Use			
E R	Failure Modes			

## Manual (Active) Belt System Availability

- (0) None available
- (1) Belt removed/destroyed
- (2) Shoulder belt
- (3) Lap belt
- (4) Lap and shoulder belt
- (5) Belt available type unknown

## Integral Belt Partially Destroyed

- (6) Shoulder belt (lap belt destroyed/removed)
- (7) Lap belt (shoulder belt destroyed/removed)
- (8) Other belt (specify):
- (9) Unknown

#### Manual (Active) Belt System Use

- (00) None used, not available, or belt removed/destroyed
- (01) Inoperable (specify):
- (02) Shoulder belt
- (03) Lap belt
- (04) Lap and shoulder belt
- (05) Belt used type unknown

- (08) Other belt used (specify):
- (12) Shoulder belt used with child safety seat
- (13) Lap belt used with child safety seat
- (14) Lap and shoulder belt used with child safety seat
- (15) Belt used with child safety seat type unknown
- (18) Other belt used with child safety seat (specify):\_\_\_\_\_
- (99) Unknown if belt used

## Manual (Active) Belt Failure Modes During Accident

- (0) No manual belt used or not available
- (1) No manual belt failure(s)
- (2) Torn webbing (stretched webbing not included)
- (3) Broken buckle or latchplate
- (4) Upper anchorage separated
- (5) Other anchorage separated (specify):
- (6) Broken retractor
- (7) Combination of above (specify):
- (8) Other manual belt failure (specify):
- (9) Unknown

	CHILD SAFET	TY SEAT FIEL	D ASSESSMENT				
	en a child safety seat is present enter the occupant's number using the codes liste						
Oce	cupant Number						
1.	Type of Child Safety Seat						
2.	Child Safety Seat Orientation	1/	1				
3.	Child Safety Seat Harness Usage		U				
4.	Child Safety Seat Shield Uasge						
5.	Child Safety Seat Tether Usage						
6.	Child Safety Seat Make/Model	Specify Bo	elow for Each Child Safe	ety Seat			
1.	Type of Child Safety Seat	3.	Child Safety Seat Harn	ess Usage			
	(0) No child safety seat (1) Infant seat	4.	Child Safety Seat Shiel	d Usage			
	(2) Toddler seat (3) Convertible seat	5.	Child Safety Seat Tetho				
	(4) Booster seat		•	re Used for Variables 3-5.			
	(7) Other type child safety seat (specify	/):	(00) No child safety se	eat			
	(8) Unknown child safety seat type (9) Unknown if child safety seat used		Not Designed with Hard (01) After market hard added, not used				
2.	Child Safety Seat Orientation		(02) After market harness/shield/tether used				
	(00) No child safety seat		(03) Child safety seat harness/shield/tet	used, but no after market her added			
	Designed for Rear Facing for This Age/Weight (01) Rear facing		(09) Unknown if harne added or used				
	(02) Forward facing		Designed With Harness				
	(08) Other orientation (specify):		(11) Harness/shield/tet				
	(09) Unknown orientation	-	(19) Unknown if harne				
	Designed for Forward Facing for This Age/Weight		(21) Harness/shield/ter				
	(11) Rear facing (12) Forward facing		(22) Harness/shield/ter (29) Unknown if harne				
	(18) Other orientation (specify):						
	(19) Unknown orientation	-	(99) Unknown if child	safety seat used			
		6.	Child Safety Seat Make				
	Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight	3	(Specify make/model a	nd occupant number)			
	(21) Rear facing						
	<ul><li>(22) Forward facing</li><li>(28) Other orientation (specify):</li></ul>						
	(29) Unknown orientation						
	(99) Unknown if child safety seat used						

## HEAD RESTRAINTS/SEAT EVALUATION

NOTES: Encode the applicable data for each seat position in the vehicle. The attribute for these variables may be found at the bottom of the page. Head restraint type/damage and seat type/performance should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

		Left	Center	Right
F	Head Restraint Type/Damage	3	0	3
I R	Seat Type	09	09	04
Š	Seat Performance	(	<i>'</i>	1
	Seat Orientation	(	1	1
S	Head Restraint Type/Damage	0	0	0
SEC	Seat Type	67	03	03
0 N	Seat Performance	1	1	1
Ď	Seat Orientation	(	(	/
Т	Head Restraint Type/Damage			
Ĥ	Seat Type			
Ŕ	Seat Performance			
D	Seat Orientation		·	
0	Head Restraint Type/Damage			
Ť	Seat Type	,		
E	Seat Performance			
R	Seat Orientation	·		•

## Head Restraint Type/Damage by Occupant at This Occupant Position

- No head restraints
- (1) Integral no damage
   (2) Integral damaged during accident
- (3) Adjustable no damage
   (4) Adjustable damaged during accident
- (5) Add-on no damage
  (6) Add-on damaged during accident
- (8) Other Specify):
- (9) Unknown

## Seat Type (this Occupant Position)

- (00) Occupant not seated or no seat
- (01) Bucket
- (02) Bucket with folding back
- (03) Bench (04) Bench with separate back cushions
- (05) Bench with folding back(s)
- (06) Split bench with separate back cushions
- Split bench with folding back(s) (07)
- (08) Pedestal (i.e., column supported)
- (09) Other seat type (specify):
- (10) Box mounted seat (i.e., van type)
- (99) Unknown

## Seat Performance (this Occupant Position)

- (0) Occupant not seated or no seat
- (1) No seat performance failure(s)
- (2) Seat adjusters failed
- (3) Seat back folding locks or "seat back" failed specify:
- (4) Seat tracks/anchors failed
- (5) Deformed by impact of occupant
- (6) Deformed by passenger compartment intrusion (specify):
- (7) Combination of above (specify):
- (8) Other (specify):
- (9) Unknown

## Seat Orientation (this Occupant Position)

- (0) Occupant not seated or no seat
- (1) Forward facing seat
- (2) Rear facing seat
- (3) Side facing seat (inward)
- (4) Side facing seat (outward)
- (8) Other (specify):
- (9) Unknown

## DESCRIBE ANY INDICATION OF ABNORMAL OCCUPANT POSTURE (I.E., UNUSUAL OCCUPANT **CONTACT PATTERN)**

		JECTION/	ENTRAPI	MENT DA	TA			ı
Complete the following if the researcher has any indication that an occupant was either ejected from or entrapped in the vehicle. Code the appropriate data on the Occpant Assessment Form.								
	EJECTION No [ Yes [ ] Describe indications of ejection and body parts involved in partial ejection(s):							
								_
	Occupant Number							
	Ejection							
(No	ete on Vehicle Interior Sketch) Ejection Area							
-	Ejection Medium							
	Medium Status							
(1) Pari (3) Ejed	) Complete ejection (8) Other ) Partial ejection picku ) Ejection, Unknown degree		7) Roof B) Other area (e.g., back of pickup, etc.) (specify):			(5) Integral structure (8) Other medium (specify): (9) Unknown		
(1) Win (2) Left (3) Rigl (4) Left (5) Rigl	Ejection Medium  (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear  Ejection Medium (1) Door/hatch/tailgate (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify):  (5) Right rear (6) Rear  Medium Status (Immediately in the long of the lo				<b>)</b> (			
ENTRAPMENT No [ Yes [ ]  Describe entrapment mechanism:								
Compone	nt(s):							
(Note in v	ehicle interior diagram)				-			



# **OCCUPANT ASSESSMENT FORM**

Form Approved O.M.B. No. 2127-0021

National Highway Traffic Safety Administration NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number 72	OCCUPANT'S SEATING
	10. Occupant's Seat Position
2. Case Number - Stratum 253 K	Front Seat
3. Vehicle Number	(11) Left side (12) Middle
4. Occupant Number	(13) Right side
OCCUPANT'S CHARACTERISTICS	(14) Other (specify):  (15) On or in the lap of another occupant
-6	, , , , , , , , , , , , , , , , , , ,
5. Occupant's Age Code actual age at time of accident.	Second Seat (21) Left side
(00) Less than one year old (specify by month):	(22) Middle
(07) 07	(23) Right side
(97) 97 years and older (99) Unknown	(24) Other (specify):(25) On or in the lap of another occupant
,	Third Seat (31) Left side
6. Occupant's Sex	(32) Middle
(1) Male	(33) Right side
(2) Female (9) Unknown	(34) Other (specify):(35) On or in the lap of another occupant
,,,,	
	Fourth Seat (41) Left side
7. Occupant's Height / 3	(42) Middle
Code actual height to the nearest	(43) Right side
centimeter. (999) Unknown	(44) Other (specify):(45) On or in the lap of another occupant
	(45) On or in the lap of another occupant
72-inches X 2.54 = $183$ centimeters	(97) In or on unenclosed area
	(98) Other seat (specify):(99) Unknown
0.00	
8. Occupant's Weight Code actual weight to the nearest	
kilogram.	11. Occupant's Posture
(999)Unknown	(0) Normal posture
200 pounds X .4536 = $09$ kilograms	Abnormal posture (1) Kneeling or standing on seat
	(2) Lying on or across seat
,	(3) Kneeling, standing or sitting in front of seat (4) Sitting sideways or turned to talk with another
9. Occupant's Role	occupant or to look out a rear window
(1) Driver (2) Passenger	(5) Sitting on a console (6) Lying back in a reclined seat position
(9) Unknown	(7) Bracing with feet or hands on a surface in front
	of seat (8) Other abnormal posture (specify):
	(9) Unknown
	(5) 5
	·

EJECTION/ENTRAPMENT					
12. Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown	0	15. Medium Status (Immediately Prior To Impact) (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown			
13. Ejection Area (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown	0	16. Entrapment (NOTE: Entrapped means that part of the person was in the vehicle and mechanically restrained; jammed doors and immobilizing injuries by themselves are not sufficient to constitute entrapment.) (0) Not entrapped (1) Entrapped (9) Unknown			
14. Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify):  (5) Integral structure (8) Other medium (specify):  (9) Unknown	0				

	RESTRAINT SYST	EM EVALUATION
17.	Manual (Active) Belt System Availability (0) None available (1) Belt removed/destroyed (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt available—type unknown  Integral Belt Partially Destroyed (6) Shoulder belt (lap belt destroyed/removed) (7) Lap belt (shoulder belt destroyed/removed)	21. Air Bag System Availability/Function (0) Not equipped/not available (1) Air bag  Non-functional (2) Air bag disconnected (specify):  (3) Air bag not reinstalled (9) Unknown
18.	(8) Other belt (specify):  (9) Unknown  Manual (Active) Belt System Use (00) None used, not available, or belt removed/destroyed (01) Inoperative (specify):  (02) Shoulder belt (03) Lap belt (04) Lap and shoulder belt (05) Belt used—type unknown (08) Other belt used (specify):	22. Air Bag System Deployment (0) Not equipped/not available (1) Air bag deployed during accident (as a result of impact) (2) Air bag deployed inadvertently just prior to accident (3) Air bag deployed, accident sequence undetermined (4) Nondeployed (5) Unknown if deployed (6) Air bag deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (9) Unknown
19.	<ul> <li>(12) Shoulder belt used with child safety seat</li> <li>(13) Lap belt used with child safety seat</li> <li>(14) Lap and shoulder belt used with child safety seat</li> <li>(15) Belt used with child safety seat—type unknown</li> <li>(18) Other belt used with child safety seat (specify):</li> <li>(99) Unknown if belt used</li> </ul> Proper Use of Manual (Active) Belts <ul> <li>(0) None used or not available</li> <li>(1) Belt used properly</li> <li>(2) Belt used properly with child safety seat</li> </ul>	23. Are There Indications of Air Bag System Failure? (0) Not equipped/not available (1) No (2) Yes (specify): (9) Unknown  Note: See Variables 44 through 48 (Page 5) for Information on Automatic Belts
	Belt Used Improperly  (3) Shoulder belt worn under arm  (4) Shoulder belt worn behind back or seat  (5) Belt worn around more than one person  (6) Lap belt worn on abdomen  (7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify):  (8) Other improper use of manual belt system (specify):  (9) Unknown	24. Police Reported Restraint Use (0) None used (1) Police did not indicate restraint use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Other or automatic restraint (specify):  (8) Restrained, type unknown (9) Police indicated "unknown"
	Manual (Active) Belt Failure Modes During Accident (0) No manual belt used (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other manual belt failure (specify):	(5) I OHOO HIGHOUGH GHINIOWH

	UEAD DEATERMET AN	
	HEAD RESTRAINT AN	ID SEAT EVALUATION
25.	Head Restraint Type/Damage by Occupant at This Occupant Position  (0) No head restraints (1) Integral—no damage (2) Integral—damaged during accident (3) Adjustable—no damage (4) Adjustable—damaged during accident (5) Add-on—no damage (6) Add-on—damaged during accident (8) Other (specify):	27. Seat Performance (this Occupant Position) (0) Occupant not seated or no seat (1) No seat performance failure(s) (2) Seat adjusters failed (3) Seat back folding locks or "seat back" failed (4) Seat track/anchors failed (5) Deformed by impact of occupant (6) Deformed by passenger compartment intrusion (specify):
	(9) Unknown	(7) Combination of above (specify):
	,	(8) Other (specify):
26.	Seat Type (this Occupant Position) (00) Occupant not seated or no seat (01) Bucket (02) Bucket with folding back (03) Bench (04) Bench with separate back cushions (05) Bench with folding back(s) (06) Split bench with separate back cushions (07) Split bench with folding back(s) (08) Pedestal (i.e., column supported) (09) Other seat type (specify):  (10) Box mounted seat (i.e., van type) (99) Unknown	(9) Unknown

	Ch	HILD SAFET	SEA		
28.	Child Safety Seat Make/Model (000) No child safety seat Applicable codes are found in your NASS Data Collection, Coding and Editing (950) Built-in child safety seat (997) Other make/model (specify):  (998) Unknown make/model (999) Unknown if child safety seat used	CDS 32.	Child S Child S Note: (	Safety Seat Harness Usage Safety Seat Shield Usage Safety Seat Tether Usage Options below applicable to les OA31-OA33. No child safety seat	<u>OC</u> <u>OC</u>
	Type of Child Safety Seat  (0) No child safety seat  (1) Infant seat  (2) Toddler seat  (3) Convertible seat  (4) Booster seat  (7) Other type child safety seat (specify):  (8) Unknown child safety seat type  (9) Unknown if child safety seat used  Child Safety Seat Orientation  (00) No child safety seat  Designed for Rear Facing for This Age/Wei  (01) Rear facing  (02) Forward facing  (08) Other orientation (specify):  (09) Unknown orientation  Designed For Forward Facing for This Age  (11) Rear facing  (12) Forward facing  (13) Other orientation (specify):  (19) Unknown orientation  Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight  (21) Rear facing  (22) Forward facing  (23) Other orientation (specify):  (29) Unknown orientation  (99) Unknown if child safety seat used		(01) A (02) A (03) C (09) U (09) U (11) H (12) H (19) U (21) H (22) H (29) U	After market harness/shield/shided, not used After market harness/shield/shided, not used After market harness/shield/shild safety seat used, but not arress/shield/tether added Unknown if harness/shield/tether ded or used  and With Harness/Shield/Tether not used sharness/shield/tether not used sharness/shield/tether used Unknown if harness/shield/tether not used sharness/shield/tether not used sharness/shield/tether used Unknown if harness/shield/tether Unknown if child safety seat	tether used to after market ether wher ed ether used es/Shield/Tether ed ether used ether used ether used

	INJURY CONSEQUENCES	
34.	Injury Severity (Police Rating)	38. Working Days Lost  Code the number of days  (up through 60) that the occupant
	<ul> <li>(0) O - No injury</li> <li>(1) C - Possible injury</li> <li>(2) B - Nonincapacitating injury</li> <li>(3) A - Incapacitating injury</li> </ul>	lost from work due to the accident (00) No working days lost (61) 61 days or more (62) Fatally injured
	<ul> <li>(4) K - Killed</li> <li>(5) U - Injury, severity unknown</li> <li>(6) Died prior to accident</li> <li>(9) Unknown</li> </ul>	(97) Not working prior to accident (99) Unknown
	(a) Olikilowii	STOP - GO TO VARIABLE 44 ON PAGE 7
35.	Treatment - Mortality (0) No treatment (1) Fatal	VARIABLES 39 THROUGH 43 ARE COMPLETED BY THE ZONE CENTER
	(2) Fatal - ruled disease (specify):	39. Time to Death  Code number of hours from time of
	Nonfatal (3) Hospitalization (4) Transported and released (5) Treatment at scene - nontransported (6) Treatment later	accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, n days = 30 +n up through 30 days = 60) (00) Not fatal
	(8) Treatment - other (specify):  (9) Unknown	(96) Fatal - ruled disease (99) Unknown
36.	Type Of Medical Facility (for Initial Treatment) (0) Not treated at a medical facility	40. 1st Medically Reported Cause of Death 60.
	<ul> <li>(1) Trauma center</li> <li>(2) Hospital</li> <li>(3) Medical clinic</li> <li>(4) Physician's office</li> <li>(5) Treatment later at medical facility</li> <li>(8) Other (specify):</li> </ul>	42. 3rd Medically Reported Cause of Death  Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death
	(9) Unknown	<ul><li>(00) Not fatal or no additional causes</li><li>(97) Other result (includes fatal ruled disease) (specify):</li></ul>
37.	Hospital Stay (00) Not Hospitalized Code the number of days (up through 60)	(99) Unknown
	that the occupant stayed in hospital. (61) 61 days or more (99) Unknown	43. Number of Recorded Injuries for This Occupant Code the actual number of injuries recorded for this occupant. (00) No recorded injuries (97) Injured, details unknown (99) Unknown if injured

	AUTOMATIC BELT SYSTEM		48. Automatic (Passive) Belt Failure Modes	
44.	Automatic (Passive) Belt System Availability/ Function (0) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown	0	During Accident (0) Not equipped/not available/not in use (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not inc (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify):	luded)
	Non-functional (4) Automatic belts destroyed or rendered inoperative (9) Unknown		<ul><li>(6) Broken retractor</li><li>(7) Combination of above (specify):</li><li>(8) Other automatic belt failure (specify):</li></ul>	
<b>4</b> 5.	Automatic (Passive) Belt System Use (0) Not equipped/not available/destroyed or rendered inoperative	0	(9) Unknown  49. Seat Orientation (this Occupant Position)	
	<ul> <li>(1) Automatic belt in use</li> <li>(2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify):</li> <li>(3) Automatic belt use unknown</li> <li>(9) Unknown</li> </ul>		(0) Occupant not seated or no seat (1) Forward facing seat (2) Rear facing seat (3) Side facing seat (inward) (4) Side facing seat (outward) (8) Other (specify):	4
		1-	(9) Unknown	_
46.	Automatic (Passive) Belt System Type (0) Not equipped/not available (1) Non-motorized system (2) Motorized system (9) Unknown	C	STOP - VARIABLES 50 THROUGH 52 A COMPLETED BY THE ZONE CENTER	(RE
		_	TRAUMA DATA	
47.	Proper Use of Automatic (Passive Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat  Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than	0	TRAUMA DATA  50. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured	0
47.	Belt System  (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat  Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back	0	50. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown	1
47.	Belt System  (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat  Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person (6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt or automatic shoulder belt used improperly	<u>O</u>	50. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured  51. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given (specify units): (9) Unknown if blood given	1 0 d
47.	Belt System  (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat  Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person (6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt or automatic shoulder belt used improperly with child safety seat (specify):  (8) Other improper use of automatic belt syste (specify):		<ul> <li>50. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured</li> <li>51. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given (specify units): (9) Unknown if blood given</li> <li>52. Arterial Blood Gases (ABG) – HCO<sub>3</sub> (00) Not injured (01) Injured, ABGs not measured or reporte (02-50) Code the actual value of theHCO<sub>3</sub> (96) ABGs reported, HCO<sub>3</sub> unknown (97) Injured, details unknown (99) Unknown if injured</li> </ul>	

PSU NUMBER

CASE NUMBER

VEHICLE NUMBER

OCCUPANT NUMBER

OI

OCCUPANT NUMBER

# OCCUPANT INJURY FORM

THE FOLLOWING DATA IS NOT INCLUDED IN THIS CASE:

4	ENTIRE FORM		
[]	PAGE NUMBER (S)		



# **OCCUPANT ASSESSMENT FORM**

O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM

**Netional Highway Traffic Safety** 

Administration	CRASHWORTHINESS DATA SYSTEM
1. Primary Sampling Unit Number 72	OCCUPANT'S SEATING
2. Case Number - Stratum 2531	10. Occupant's Seat Position
3. Vehicle Number	(11) Left side (12) Middle
4. Occupant Number	(13) Right side
OCCUPANT'S CHARACTERISTICS	(14) Other (specify):(15) On or in the lap of another occupant
5. Occupant's Age Code actual age at time of accident. (00) Less than one year old (specify by month):  (97) 97 years and older (99) Unknown	Second Seat (21) Left side (22) Middle (23) Right side (24) Other (specify): (25) On or in the lap of another occupant
6. Occupant's Sex (1) Male (2) Female (9) Unknown	Third Seat (31) Left side (32) Middle (33) Right side (34) Other (specify): (35) On or in the lap of another occupant
7. Occupant's Height Code actual height to the nearest centimeter. (999) Unknown  7 4 inches X 2.54 = 180 centimeters	Fourth Seat (41) Left side (42) Middle (43) Right side (44) Other (specify): (45) On or in the lap of another occupant (97) In or on unenclosed area (98) Other seat (specify):
8. Occupant's Weight Code actual weight to the nearest kilogram. (999)Unknown	(99) Unknown  11. Occupant's Posture (0) Normal posture
225 pounde X .4536 = 102 kilograme  9. Occupant's Role (1) Driver (2) Passenger (9) Unknown	Abnormal posture (1) Kneeling or standing on seat (2) Lying on or across seat (3) Kneeling, standing or sitting in front of seat (4) Sitting sideways or turned to talk with another occupant or to look out a rear window (5) Sitting on a console (6) Lying back in a reclined seat position (7) Bracing with feet or hands on a surface in front of seat (8) Other abnormal posture (specify):
,	

EJEO	CTION/E	NTRAPMENT
12. Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown	0	15. Medium Status (Immediately Prior To Impact) (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown
13. Ejection Area (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown	0	16. Entrapment (NOTE: Entrapped means that part of the person was in the vehicle and mechanically restrained; jammed doors and immobilizing injuries by themselves are not sufficient to constitute entrapment.) (0) Not entrapped (1) Entrapped (9) Unknown
14. Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify): (5) Integral structure (8) Other medium (specify): (9) Unknown	0	

	RESTRAINT SYST	TEM EVALUATION
17.	Manual (Active) Belt System Availability (0) None available (1) Belt removed/destroyed (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt available—type unknown  Integral Belt Partially Destroyed (6) Shoulder belt (lap belt destroyed/removed)	21. Air Bag System Availability/Function (0) Not equipped/not available (1) Air bag  Non-functional (2) Air bag disconnected (specify):  (3) Air bag not reinstalled (9) Unknown
18.	(7) Lap belt (shoulder belt destroyed/removed)  (8) Other belt (specify):  (9) Unknown  Manual (Active) Belt System Use (00) None used, not available, or belt removed/destroyed (01) Inoperative (specify):  (02) Shoulder belt (03) Lap belt (04) Lap and shoulder belt (05) Belt used—type unknown	22. Air Bag System Deployment (0) Not equipped/not available (1) Air bag deployed during accident (as a result of impact) (2) Air bag deployed inadvertently just prior to accident (3) Air bag deployed, accident sequence undetermined (4) Nondeployed (5) Unknown if deployed (6) Air bag deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)
19.	(08) Other belt used (specify):  (12) Shoulder belt used with child safety seat (13) Lap belt used with child safety seat (14) Lap and shoulder belt used with child safety seat (15) Belt used with child safety seat—type unknown (18) Other belt used with child safety seat (specify): (99) Unknown if belt used  Proper Use of Manual (Active) Belts (0) None used or not available	(9) Unknown  23. Are There Indications of Air Bag System Failure? (0) Not equipped/not available (1) No (2) Yes (specify): (9) Unknown
	(1) Belt used properly (2) Belt used properly with child safety seat  Belt Used Improperly (3) Shoulder belt worn under arm (4) Shoulder belt worn behind back or seat (5) Belt worn around more than one person (6) Lap belt worn on abdomen (7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify): (8) Other improper use of manual belt system (specify):	Note: See Variables 44 through 48 (Page 5) for Information on Automatic Belts  24. Police Reported Restraint Use (0) None used (1) Police did not indicate restraint use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Other or automatic restraint (specify):  (8) Restrained, type unknown
	Manual (Active) Belt Failure Modes During Accident (0) No manual belt used (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other manual belt failure (specify):	(9) Police indicated "unknown"

CHILD SAF	ETY SEAT
28. Child Safety Seat Make/Model (000) No child safety seat Applicable codes are found in your NASS CDS Data Collection, Coding and Editing (950) Built-in child safety seat (997) Other make/model (specify):  (998) Unknown make/model (999) Unknown if child safety seat used	31. Child Safety Seat Harness Usage  32. Child Safety Seat Shield Usage  33. Child Safety Seat Tether Usage  Note: Options below applicable to Variables OA31-OA33. (00) No child safety seat  Not Designed With Harness/Shield/Tether
(0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat (7) Other type child safety seat (specify):  (8) Unknown child safety seat type (9) Unknown if child safety seat used	(01) After market harness/shield/tether added, not used (02) After market harness/shield/tether used (03) Child safety seat used, but no after market harness/shield/tether added (09) Unknown if harness/shield/tether added or used  Designed With Harness/Shield/Tether (11) Harness/shield/tether not used (12) Harness/shield/tether used (19) Unknown if harness/shield/tether used
30. Child Safety Seat Orientation (00) No child safety seat  Designed for Rear Facing for This Age/Weight (01) Rear facing (02) Forward facing (08) Other orientation (specify): (09) Unknown orientation  Designed For Forward Facing for This Age/Weight (11) Rear facing (12) Forward facing (13) Other orientation (specify): (19) Unknown orientation  Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing (23) Other orientation (specify): (29) Unknown orientation (99) Unknown if child safety seat used	Unknown If Designed With Harness/Shield/Tether (21) Harness/shield/tether not used (22) Harness/shield/tether used (29) Unknown if harness/shield/tether used (99) Unknown if child safety seat used

Ų,	INJURY CONSEQUENCES	
34.	Injury Severity (Police Rating)	38. Working Days Lost  Code the number of days  (up through 60) that the occupant
	/O) O No :-: -	lost from work due to the accident
	(0) O - No injury (1) C - Possible injury	(00) No working days lost
	(2) B - Nonincapacitating injury	(61) 61 days or more
	(3) A - Incapacitating injury	(62) Fatally injured
	(4) K - Killed	(97) Not working prior to accident
	(5) U - Injury, severity unknown	(99) Unknown
	(6) Died prior to accident	
	(9) Unknown	STOP - GO TO VARIABLE 44 ON PAGE 7
<b>3</b> 5	Treatment - Mortality	VARIABLES 39 THROUGH 43 ARE
55.	(0) No treatment	COMPLETED BY THE ZONE CENTER
	(1) Fatal	
	(2) Fatal - ruled disease (specify):	39. Time to Death
	(a) raide discuss (spaciny).	
		Code number of hours from time of
	Nonfatal	accident to time of death up through 24
	(3) Hospitalization	hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day =
	(4) Transported and released	31, 2 days = $32$ , n days = $30 + n$ up
	(5) Treatment at scene - nontransported	through 30 days = 60)
	(6) Treatment later	(00) Not fatal
	(8) Treatment - other (specify):	(96) Fatal - ruled disease
	(9) Unknown	(99) Unknown
		00
		40. 1st Medically Reported Cause of Death
36.	Type Of Medical Facility (for Initial Treatment)	Tot Modically Hoportod Cause of Death
	(0) Not treated at a medical facility	41. 2nd Medically Reported Cause of Death OO
	(1) Trauma center	· · · · · · · · · · · · · · · · · · ·
	(2) Hospital (3) Medical clinic	42. 3rd Medically Reported Cause of Death O
	(4) Physician's office	Code the Occupant Injury from line
	(5) Treatment later at medical facility	number(s) for the medically reported
	(8) Other (specify):	injury(s) which reportedly contributed to
	, and topolity,	this occupant's death
	(9) Unknown	(00) Not fatal or no additional causes
	<b>^ ^ ^</b>	(97) Other result (includes fatal ruled disease) (specify):
	Hospital Stay	(99) Unknown
	(00) Not Hospitalized	(33) OHKHOWH
	Code the number of days (up through 60)	
	that the occupant stayed in hospital.	43. Number of Recorded Injuries for
	(61) 61 days or more (99) Unknown	This Occupant
	(99) Unknown	Code the actual number of
		injuries recorded for this occupant.
		(00) No recorded injuries
		(97) Injured, details unknown
		(99) Unknown if injured

6	,	
	Automatic (Passive) Belt System Availability/ Function (0) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown  Non-functional (4) Automatic belts destroyed or rendered inoperative (9) Unknown	48. Automatic (Passive) Belt Failure Modes During Accident (0) Not equipped/not available/not in use (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify):  (6) Broken retractor (7) Combination of above (specify): (8) Other automatic belt failure (specify):
45.	Automatic (Passive) Belt System Use (0) Not equipped/not available/destroyed or rendered inoperative (1) Automatic belt in use (2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify): (3) Automatic belt use unknown (9) Unknown	49. Seat Orientation (this Occupant Position) (0) Occupant not seated or no seat (1) Forward facing seat (2) Rear facing seat (3) Side facing seat (inward) (4) Side facing seat (outward) (8) Other (specify): (9) Unknown
46.	Automatic (Passive) Belt System Type (0) Not equipped/not available (1) Non-motorized system (2) Motorized system (9) Unknown	STOP - VARIABLES 50 THROUGH 52 ARE COMPLETED BY THE ZONE CENTER TRAUMA DATA
47.	Proper Use of Automatic (Passive Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat  Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person (6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt or automatic shoulder belt used improperly with child safety seat (specify): (8) Other improper use of automatic belt system (specify): (9) Unknown	50. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured  51. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given (2) Yes - blood given (specify units): (9) Unknown if blood given  52. Arterial Blood Gases (ABG) – HCO <sub>3</sub> (00) Not injured (01) Injured, ABGs not measured or reported (02-50) Code the actual value of theHCO <sub>3</sub> (96) ABGs reported, HCO <sub>3</sub> unknown (97) Injured, details unknown (99) Unknown if injured
	ARE ALL APPLICABLE MEDICAL RECOFWITH INITIAL SUBMISSION?	RDS INCLUDED NO[] YES[T
l	UPDATE CANDIDATE?	NO I YES [ ]

PSU NUMBER

CASE NUMBER

VEHICLE NUMBER

OCCUPANT NUMBER

D3

03

# OCCUPANT INJURY FORM

THE FOLLOWING DATA IS NOT INCLUDED IN THIS CASE:

<b>A</b>	ENTIRE FORM
[]	PAGE NUMBER (S)

VO2 Page 2

	OCCUPANT RELATED		
16.	Driver Presence in Vehicle (0) Driver not present	I. Rollover (0) No rollover (no overtu	rning)
	(1) Driver present (9) Unknown	Rollover (primarily about a (1) Rollover, 1 quarter tur (2) Rollover, 2 quarter tur (3) Rollover, 3 quarter tur	rn only rns
17.	Number of Occupants This Vehicle (00-96) Code actual number of occupants for this vehicle (97) 97 or more	(4) Rollover, 4 or more qu	
	(99) Unknown	(5) Rolloverend-over-end about the lateral axis) (9) Rollover (overturn), de	
18.	Number of Occupant Forms Submitted		
	VEHICLE WEIGHT ITEMS	OVERRIDE/UNDERRID	E (THIS VEHICLE)
19.	Vehicle Curb Weight Code weight to nearest 10 kilograms.	. Front Override/Underride	·
	(045) Less than 450 kilograms (610) 6,100 kilograms or more	6. Rear Override/Underride (1	·
	(999) Unknown	(0) No override/underride, not an end-to-end imp	
	Source: \$5	Override (see specific CD) (1) 1st CDC (2) 2nd CDC	C)
20.	Vehicle Cargo WeightO,OO	(3) Other not automated (	CDC (specify):
	10 kilograms. (000) Less than 5 kilograms (450) 4,500 kilograms or more	Underride (see specific CL (4) 1st CDC	DC)
	(999) Unknown,	(5) 2nd CDC (6) Other not automated (	CDC (specify):
	RECONSTRUCTION DATA		
	Towed Trailing Unit	(7) Medium/heavy truck o (9) Unknown	or bus override
	(0) No towed unit (1) Yes—towed trailing unit	HEADING ANGLE A	T-MADACT FOR
	(9) Unknown	HEADING ANGLE A	ELTA V
	Documentation of Trajectory Data for This Vehicle (0) No	Values: (000)-(359) Code (997) Noncollisio	on
	(1) Yes	(998) Impact wit (999) Unknown	h object
	Post Collision Condition of Tree or Pole (For Highest Delta V)	7. Heading Angle For This V	
	(0) Not collision (for highest delta V) with tree or pole (1) Not damaged	3. Heading Angle For Other	Vehicle <u>O S S</u>
	(2) Cracked/sheared (3) Tilted <45 degrees (4) Tilted ≥45 degrees		
	(5) Uprooted tree (6) Separated pole from base		
	(7) Pole replaced (8) Other (specify):		
	(9) Unknown		

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OTHER DATA	61 Pollovar Initiation Object Contacted
Analysis of Asian and Asia	61. Rollover Initiation Object Contacted
56. Driver's Zip Code	
OO. Differ 3 Zip Code	_
(00000) D:	62. Location on Vehicle Where Initial Principal
(00000) Driver not present	Tripping Force Is Applied
(00001) Driver not a resident of U.S. or territories	
Code actual 5-digit zip code	(0) 11
(99999) Unknown	(0) No rollover
(33333) OTIKIOWIT	(1) Wheels/tires
	(2) Side plane
3	(3) End plane
57. Driver's Race/Ethnic Origin	
(0) Driver not present	(4) Undercarriage
	(5) Other location on vehicle (specify):
(1) White (non-Hispanic)	
(2) Black (non-Hispanic)	(8) Non-contact rollover forces (specify):
(3) White (Hispanic)	l
(4) Black (Hispanic)	
(5) American Indian, Eskimo or Aleut	(9) Unknown
(6) Asian or Pacific Islander	
(8) Other (specify):	63. Direction of Initial Roll
, ,	63. Direction of Initial Roll
(9) Unknown	
19) OHKHOWH	(0) No rollover
	(1) Roll right - primarily about the longitudinal axis
58. Vehicle Special Use (This Trip)	(2) Roll left - primarily about the longitudinal axis
(0) No special use	1
	(5) End-over-end (i.e., primarily about the lateral
(1) Taxi	axis)
(2) Vehicle used as school bus	(9) Unknown roll direction
(3) Vehicle used as other bus	(a) Ouknown foil direction
(4) Military	
(5) Police	
(6) Ambulance	
(7) Fire truck or car	PRECRASH DATA
	PRECRASH DATA
(8) Other (specify):	$\sim$ 1/
	64. Pre-Event Movement (Prior to
(8) Other (specify):	$\sim$ 1/
(8) Other (specify):(9) Unknown	64. Pre-Event Movement (Prior to Recognition of Critical Event)
(8) Other (specify):	64. Pre-Event Movement (Prior to Recognition of Critical Event)
(8) Other (specify):(9) Unknown  ROLLOVER DATA	64. Pre-Event Movement (Prior to Recognition of Critical Event)  (01) Going straight
(8) Other (specify): (9) Unknown  ROLLOVER DATA  If GV07 (Body Type) ≠ 1-49, leave GV59-GV63 blank.	64. Pre-Event Movement (Prior to Recognition of Critical Event)  (01) Going straight (02) Slowing or stopping in traffic lane
(8) Other (specify): (9) Unknown  ROLLOVER DATA  If GV07 (Body Type) ≠ 1-49, leave GV59-GV63 blank.	64. Pre-Event Movement (Prior to Recognition of Critical Event)  (01) Going straight (02) Slowing or stopping in traffic lane (03) Starting in traffic lane
(8) Other (specify): (9) Unknown  ROLLOVER DATA  If GV07 (Body Type) ≠ 1-49, leave GV59-GV63 blank. If GV24 (Rollover) = 0, then GV59-GV63 must equal 0.	64. Pre-Event Movement (Prior to Recognition of Critical Event)  (01) Going straight (02) Slowing or stopping in traffic lane (03) Starting in traffic lane (04) Stopped in traffic lane
(8) Other (specify): (9) Unknown  ROLLOVER DATA  If GV07 (Body Type) ≠ 1-49, leave GV59-GV63 blank.	64. Pre-Event Movement (Prior to Recognition of Critical Event)  (01) Going straight (02) Slowing or stopping in traffic lane (03) Starting in traffic lane (04) Stopped in traffic lane (05) Passing or overtaking another vehicle
(8) Other (specify): (9) Unknown  ROLLOVER DATA  If GV07 (Body Type) ≠ 1-49, leave GV59-GV63 blank. If GV24 (Rollover) = 0, then GV59-GV63 must equal 0. If GV24 = 9, then GV59-GV63 must equal 9.	64. Pre-Event Movement (Prior to Recognition of Critical Event)  (01) Going straight (02) Slowing or stopping in traffic lane (03) Starting in traffic lane (04) Stopped in traffic lane (05) Passing or overtaking another vehicle
(8) Other (specify): (9) Unknown  ROLLOVER DATA  If GV07 (Body Type) ≠ 1-49, leave GV59-GV63 blank. If GV24 (Rollover) = 0, then GV59-GV63 must equal 0. If GV24 = 9, then GV59-GV63 must equal 9.  59. Rollover Initiation Type	64. Pre-Event Movement (Prior to Recognition of Critical Event)  (01) Going straight (02) Slowing or stopping in traffic lane (03) Starting in traffic lane (04) Stopped in traffic lane (05) Passing or overtaking another vehicle (06) Disabled or parked in travel lane
(8) Other (specify): (9) Unknown  ROLLOVER DATA  If GV07 (Body Type) ≠ 1-49, leave GV59-GV63 blank. If GV24 (Rollover) = 0, then GV59-GV63 must equal 0. If GV24 = 9, then GV59-GV63 must equal 9.	64. Pre-Event Movement (Prior to Recognition of Critical Event)  (01) Going straight (02) Slowing or stopping in traffic lane (03) Starting in traffic lane (04) Stopped in traffic lane (05) Passing or overtaking another vehicle (06) Disabled or parked in travel lane (07) Leaving a parking position
(8) Other (specify): (9) Unknown  ROLLOVER DATA  If GV07 (Body Type) ≠ 1-49, leave GV59-GV63 blank. If GV24 (Rollover) = 0, then GV59-GV63 must equal 0. If GV24 = 9, then GV59-GV63 must equal 9.  59. Rollover Initiation Type (0) No rollover	64. Pre-Event Movement (Prior to Recognition of Critical Event)  (01) Going straight (02) Slowing or stopping in traffic lane (03) Starting in traffic lane (04) Stopped in traffic lane (05) Passing or overtaking another vehicle (06) Disabled or parked in travel lane (07) Leaving a parking position (08) Entering a parking position
(8) Other (specify): (9) Unknown  ROLLOVER DATA  If GV07 (Body Type) ≠ 1-49, leave GV59-GV63 blank. If GV24 (Rollover) = 0, then GV59-GV63 must equal 0. If GV24 = 9, then GV59-GV63 must equal 9.  59. Rollover Initiation Type (0) No rollover (1) Trip-over	64. Pre-Event Movement (Prior to Recognition of Critical Event)  (01) Going straight (02) Slowing or stopping in traffic lane (03) Starting in traffic lane (04) Stopped in traffic lane (05) Passing or overtaking another vehicle (06) Disabled or parked in travel lane (07) Leaving a parking position (08) Entering a parking position (09) Turning right
(8) Other (specify): (9) Unknown  ROLLOVER DATA  If GV07 (Body Type) ≠ 1-49, leave GV59-GV63 blank. If GV24 (Rollover) = 0, then GV59-GV63 must equal 0. If GV24 = 9, then GV59-GV63 must equal 9.  59. Rollover Initiation Type (0) No rollover (1) Trip-over (2) Flip-over	64. Pre-Event Movement (Prior to Recognition of Critical Event)  (01) Going straight (02) Slowing or stopping in traffic lane (03) Starting in traffic lane (04) Stopped in traffic lane (05) Passing or overtaking another vehicle (06) Disabled or parked in travel lane (07) Leaving a parking position (08) Entering a parking position (09) Turning right
(8) Other (specify): (9) Unknown  ROLLOVER DATA  If GV07 (Body Type) ≠ 1-49, leave GV59-GV63 blank. If GV24 (Rollover) = 0, then GV59-GV63 must equal 0. If GV24 = 9, then GV59-GV63 must equal 9.  59. Rollover Initiation Type (0) No rollover (1) Trip-over (2) Flip-over (3) Turn-over	64. Pre-Event Movement (Prior to Recognition of Critical Event)  (01) Going straight (02) Slowing or stopping in traffic lane (03) Starting in traffic lane (04) Stopped in traffic lane (05) Passing or overtaking another vehicle (06) Disabled or parked in travel lane (07) Leaving a parking position (08) Entering a parking position (09) Turning right (10) Turning left
(8) Other (specify): (9) Unknown  ROLLOVER DATA  If GV07 (Body Type) ≠ 1-49, leave GV59-GV63 blank. If GV24 (Rollover) = 0, then GV59-GV63 must equal 0. If GV24 = 9, then GV59-GV63 must equal 9.  59. Rollover Initiation Type (0) No rollover (1) Trip-over (2) Flip-over	64. Pre-Event Movement (Prior to Recognition of Critical Event)  (01) Going straight (02) Slowing or stopping in traffic lane (03) Starting in traffic lane (04) Stopped in traffic lane (05) Passing or overtaking another vehicle (06) Disabled or parked in travel lane (07) Leaving a parking position (08) Entering a parking position (09) Turning right (10) Turning left (11) Making a U-turn
(8) Other (specify): (9) Unknown  ROLLOVER DATA  If GV07 (Body Type) ≠ 1-49, leave GV59-GV63 blank. If GV24 (Rollover) = 0, then GV59-GV63 must equal 0. If GV24 = 9, then GV59-GV63 must equal 9.  59. Rollover Initiation Type (0) No rollover (1) Trip-over (2) Flip-over (3) Turn-over (4) Climb-over	64. Pre-Event Movement (Prior to Recognition of Critical Event)  (01) Going straight (02) Slowing or stopping in traffic lane (03) Starting in traffic lane (04) Stopped in traffic lane (05) Passing or overtaking another vehicle (06) Disabled or parked in travel lane (07) Leaving a parking position (08) Entering a parking position (09) Turning right (10) Turning left (11) Making a U-turn (12) Backing up (other than for parking position)
(8) Other (specify): (9) Unknown  ROLLOVER DATA  If GV07 (Body Type) ≠ 1-49, leave GV59-GV63 blank. If GV24 (Rollover) = 0, then GV59-GV63 must equal 0. If GV24 = 9, then GV59-GV63 must equal 9.  59. Rollover Initiation Type (0) No rollover (1) Trip-over (2) Flip-over (3) Turn-over (4) Climb-over (5) Fall-over	64. Pre-Event Movement (Prior to Recognition of Critical Event)  (01) Going straight (02) Slowing or stopping in traffic lane (03) Starting in traffic lane (04) Stopped in traffic lane (05) Passing or overtaking another vehicle (06) Disabled or parked in travel lane (07) Leaving a parking position (08) Entering a parking position (09) Turning right (10) Turning left (11) Making a U-turn (12) Backing up (other than for parking position) (13) Negotiating a curve
(8) Other (specify): (9) Unknown  ROLLOVER DATA  If GV07 (Body Type) ≠ 1-49, leave GV59-GV63 blank. If GV24 (Rollover) = 0, then GV59-GV63 must equal 0. If GV24 = 9, then GV59-GV63 must equal 9.  59. Rollover Initiation Type (0) No rollover (1) Trip-over (2) Flip-over (3) Turn-over (4) Climb-over (5) Fall-over (6) Bounce-over	64. Pre-Event Movement (Prior to Recognition of Critical Event)  (01) Going straight (02) Slowing or stopping in traffic lane (03) Starting in traffic lane (04) Stopped in traffic lane (05) Passing or overtaking another vehicle (06) Disabled or parked in travel lane (07) Leaving a parking position (08) Entering a parking position (09) Turning right (10) Turning left (11) Making a U-turn (12) Backing up (other than for parking position) (13) Negotiating a curve
(8) Other (specify): (9) Unknown  ROLLOVER DATA  If GV07 (Body Type) ≠ 1-49, leave GV59-GV63 blank. If GV24 (Rollover) = 0, then GV59-GV63 must equal 0. If GV24 = 9, then GV59-GV63 must equal 9.  59. Rollover Initiation Type (0) No rollover (1) Trip-over (2) Flip-over (3) Turn-over (4) Climb-over (5) Fall-over (6) Bounce-over (7) Collision with another vehicle	64. Pre-Event Movement (Prior to Recognition of Critical Event)  (01) Going straight (02) Slowing or stopping in traffic lane (03) Starting in traffic lane (04) Stopped in traffic lane (05) Passing or overtaking another vehicle (06) Disabled or parked in travel lane (07) Leaving a parking position (08) Entering a parking position (09) Turning right (10) Turning left (11) Making a U-turn (12) Backing up (other than for parking position) (13) Negotiating a curve (14) Changing lanes
(8) Other (specify): (9) Unknown  ROLLOVER DATA  If GV07 (Body Type) ≠ 1-49, leave GV59-GV63 blank. If GV24 (Rollover) = 0, then GV59-GV63 must equal 0. If GV24 = 9, then GV59-GV63 must equal 9.  59. Rollover Initiation Type (0) No rollover (1) Trip-over (2) Flip-over (3) Turn-over (4) Climb-over (5) Fall-over (6) Bounce-over	64. Pre-Event Movement (Prior to Recognition of Critical Event)  (01) Going straight (02) Slowing or stopping in traffic lane (03) Starting in traffic lane (04) Stopped in traffic lane (05) Passing or overtaking another vehicle (06) Disabled or parked in travel lane (07) Leaving a parking position (08) Entering a parking position (09) Turning right (10) Turning left (11) Making a U-turn (12) Backing up (other than for parking position) (13) Negotiating a curve (14) Changing lanes (15) Merging
(8) Other (specify): (9) Unknown  ROLLOVER DATA  If GV07 (Body Type) ≠ 1-49, leave GV59-GV63 blank. If GV24 (Rollover) = 0, then GV59-GV63 must equal 0. If GV24 = 9, then GV59-GV63 must equal 9.  59. Rollover Initiation Type (0) No rollover (1) Trip-over (2) Flip-over (3) Turn-over (4) Climb-over (5) Fall-over (6) Bounce-over (7) Collision with another vehicle	64. Pre-Event Movement (Prior to Recognition of Critical Event)  (01) Going straight (02) Slowing or stopping in traffic lane (03) Starting in traffic lane (04) Stopped in traffic lane (05) Passing or overtaking another vehicle (06) Disabled or parked in travel lane (07) Leaving a parking position (08) Entering a parking position (09) Turning right (10) Turning left (11) Making a U-turn (12) Backing up (other than for parking position) (13) Negotiating a curve (14) Changing lanes (15) Merging (16) Successful avoidance maneuver to a previous
(8) Other (specify): (9) Unknown  ROLLOVER DATA  If GV07 (Body Type) ≠ 1-49, leave GV59-GV63 blank. If GV24 (Rollover) = 0, then GV59-GV63 must equal 0. If GV24 = 9, then GV59-GV63 must equal 9.  59. Rollover Initiation Type (0) No rollover (1) Trip-over (2) Flip-over (3) Turn-over (4) Climb-over (5) Fall-over (6) Bounce-over (7) Collision with another vehicle (8) Other rollover initiation type specify):	64. Pre-Event Movement (Prior to Recognition of Critical Event)  (01) Going straight (02) Slowing or stopping in traffic lane (03) Starting in traffic lane (04) Stopped in traffic lane (05) Passing or overtaking another vehicle (06) Disabled or parked in travel lane (07) Leaving a parking position (08) Entering a parking position (09) Turning right (10) Turning left (11) Making a U-turn (12) Backing up (other than for parking position) (13) Negotiating a curve (14) Changing lanes (15) Merging (16) Successful avoidance maneuver to a previous critical event
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(8) Other (specify): (9) Unknown  ROLLOVER DATA  If GV07 (Body Type) ≠ 1-49, leave GV59-GV63 blank. If GV24 (Rollover) = 0, then GV59-GV63 must equal 0. If GV24 = 9, then GV59-GV63 must equal 9.  59. Rollover Initiation Type (0) No rollover (1) Trip-over (2) Flip-over (3) Turn-over (4) Climb-over (5) Fall-over (6) Bounce-over (7) Collision with another vehicle (8) Other rollover initiation type specify):	64. Pre-Event Movement (Prior to Recognition of Critical Event)  (01) Going straight (02) Slowing or stopping in traffic lane (03) Starting in traffic lane (04) Stopped in traffic lane (05) Passing or overtaking another vehicle (06) Disabled or parked in travel lane (07) Leaving a parking position (08) Entering a parking position (09) Turning right (10) Turning left (11) Making a U-turn (12) Backing up (other than for parking position) (13) Negotiating a curve (14) Changing lanes (15) Merging (16) Successful avoidance maneuver to a previous critical event (97) Other (specify):
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(8) Other (specify): (9) Unknown  ROLLOVER DATA  If GV07 (Body Type) ≠ 1-49, leave GV59-GV63 blank. If GV24 (Rollover) = 0, then GV59-GV63 must equal 0. If GV24 = 9, then GV59-GV63 must equal 9.  59. Rollover Initiation Type (0) No rollover (1) Trip-over (2) Flip-over (3) Turn-over (4) Climb-over (5) Fall-over (6) Bounce-over (7) Collision with another vehicle (8) Other rollover initiation type specify): (9) Unknown rollover initiation  ©  60. Location of Rollover Initiation	64. Pre-Event Movement (Prior to Recognition of Critical Event)  (01) Going straight (02) Slowing or stopping in traffic lane (03) Starting in traffic lane (04) Stopped in traffic lane (05) Passing or overtaking another vehicle (06) Disabled or parked in travel lane (07) Leaving a parking position (08) Entering a parking position (09) Turning right (10) Turning left (11) Making a U-turn (12) Backing up (other than for parking position) (13) Negotiating a curve (14) Changing lanes (15) Merging (16) Successful avoidance maneuver to a previous critical event (97) Other (specify):
(8) Other (specify): (9) Unknown  ROLLOVER DATA  If GV07 (Body Type) ≠ 1-49, leave GV59-GV63 blank. If GV24 (Rollover) = 0, then GV59-GV63 must equal 0. If GV24 = 9, then GV59-GV63 must equal 9.  59. Rollover Initiation Type (0) No rollover (1) Trip-over (2) Flip-over (3) Turn-over (4) Climb-over (5) Fall-over (6) Bounce-over (7) Collision with another vehicle (8) Other rollover initiation type specify): (9) Unknown rollover initiation type  60. Location of Rollover Initiation  (0) No rollover (1) On roadway	64. Pre-Event Movement (Prior to Recognition of Critical Event)  (01) Going straight (02) Slowing or stopping in traffic lane (03) Starting in traffic lane (04) Stopped in traffic lane (05) Passing or overtaking another vehicle (06) Disabled or parked in travel lane (07) Leaving a parking position (08) Entering a parking position (09) Turning right (10) Turning left (11) Making a U-turn (12) Backing up (other than for parking position) (13) Negotiating a curve (14) Changing lanes (15) Merging (16) Successful avoidance maneuver to a previous critical event (97) Other (specify):
(8) Other (specify): (9) Unknown  ROLLOVER DATA  If GV07 (Body Type) ≠ 1-49, leave GV59-GV63 blank. If GV24 (Rollover) = 0, then GV59-GV63 must equal 0. If GV24 = 9, then GV59-GV63 must equal 9.  59. Rollover Initiation Type (0) No rollover (1) Trip-over (2) Flip-over (3) Turn-over (4) Climb-over (5) Fall-over (6) Bounce-over (7) Collision with another vehicle (8) Other rollover initiation type specify): (9) Unknown rollover initiation type  60. Location of Rollover Initiation (0) No rollover (1) On roadway (2) On shoulder—paved	64. Pre-Event Movement (Prior to Recognition of Critical Event)  (01) Going straight (02) Slowing or stopping in traffic lane (03) Starting in traffic lane (04) Stopped in traffic lane (05) Passing or overtaking another vehicle (06) Disabled or parked in travel lane (07) Leaving a parking position (08) Entering a parking position (09) Turning right (10) Turning left (11) Making a U-turn (12) Backing up (other than for parking position) (13) Negotiating a curve (14) Changing lanes (15) Merging (16) Successful avoidance maneuver to a previous critical event (97) Other (specify):
(8) Other (specify): (9) Unknown  ROLLOVER DATA  If GV07 (Body Type) ≠ 1-49, leave GV59-GV63 blank. If GV24 (Rollover) = 0, then GV59-GV63 must equal 0. If GV24 = 9, then GV59-GV63 must equal 9.  59. Rollover Initiation Type (0) No rollover (1) Trip-over (2) Flip-over (3) Turn-over (4) Climb-over (5) Fall-over (6) Bounce-over (7) Collision with another vehicle (8) Other rollover initiation type specify): (9) Unknown rollover initiation type  60. Location of Rollover Initiation  (0) No rollover (1) On roadway	64. Pre-Event Movement (Prior to Recognition of Critical Event)  (01) Going straight (02) Slowing or stopping in traffic lane (03) Starting in traffic lane (04) Stopped in traffic lane (05) Passing or overtaking another vehicle (06) Disabled or parked in travel lane (07) Leaving a parking position (08) Entering a parking position (09) Turning right (10) Turning left (11) Making a U-turn (12) Backing up (other than for parking position) (13) Negotiating a curve (14) Changing lanes (15) Merging (16) Successful avoidance maneuver to a previous critical event (97) Other (specify):
(8) Other (specify): (9) Unknown  ROLLOVER DATA  If GV07 (Body Type) ≠ 1-49, leave GV59-GV63 blank. If GV24 (Rollover) = 0, then GV59-GV63 must equal 0. If GV24 = 9, then GV59-GV63 must equal 9.  59. Rollover Initiation Type (0) No rollover (1) Trip-over (2) Flip-over (3) Turn-over (4) Climb-over (5) Fall-over (6) Bounce-over (7) Collision with another vehicle (8) Other rollover initiation type specify): (9) Unknown rollover initiation  (0) No rollover (1) On roadway (2) On shoulder—paved (3) On shoulder—unpaved	64. Pre-Event Movement (Prior to Recognition of Critical Event)  (01) Going straight (02) Slowing or stopping in traffic lane (03) Starting in traffic lane (04) Stopped in traffic lane (05) Passing or overtaking another vehicle (06) Disabled or parked in travel lane (07) Leaving a parking position (08) Entering a parking position (09) Turning right (10) Turning left (11) Making a U-turn (12) Backing up (other than for parking position) (13) Negotiating a curve (14) Changing lanes (15) Merging (16) Successful avoidance maneuver to a previous critical event (97) Other (specify):
(8) Other (specify): (9) Unknown  ROLLOVER DATA  If GV07 (Body Type) ≠ 1-49, leave GV59-GV63 blank. If GV24 (Rollover) = 0, then GV59-GV63 must equal 0. If GV24 = 9, then GV59-GV63 must equal 9.  59. Rollover Initiation Type (0) No rollover (1) Trip-over (2) Flip-over (3) Turn-over (4) Climb-over (5) Fall-over (6) Bounce-over (7) Collision with another vehicle (8) Other rollover initiation type specify): (9) Unknown rollover initiation type  60. Location of Rollover Initiation (0) No rollover (1) On roadway (2) On shoulder—paved	64. Pre-Event Movement (Prior to Recognition of Critical Event)  (01) Going straight (02) Slowing or stopping in traffic lane (03) Starting in traffic lane (04) Stopped in traffic lane (05) Passing or overtaking another vehicle (06) Disabled or parked in travel lane (07) Leaving a parking position (08) Entering a parking position (09) Turning right (10) Turning left (11) Making a U-turn (12) Backing up (other than for parking position) (13) Negotiating a curve (14) Changing lanes (15) Merging (16) Successful avoidance maneuver to a previous critical event (97) Other (specify):

# CODES FOR ROLLOVER INITIATION OBJECT CONTACTED

(00) No rollover (01-30) — Vehicle Number	(57) Fence (58) Wall
	(59) Building
Noncollision	(60) Ditch or culvert
(31) Turn-over — fall-over	(61) Ground
(33) Jackknife	(62) Fire hydrant
	(63) Curb
Collision With Fixed Object	(64) Bridge
(41) Tree (≤ 10 cm in diameter)	(68) Other fixed object (specify):
(42) Tree (> 10 cm in diameter)	(00) Other fixed object (specify):
(43) Shrubbery or bush	(69) Unknown fixed object
(44) Embankment	(09) Officiowit fixed object
	Collision with Nantius of Ohises
(45) Breakaway pole or post (any diameter)	Collision with Nonfixed Object
to an extensively pole of poot fairly diametery	(71) Motor vehicle not in-transport
Nonbreakaway Pole or Post	(76) Animal
(50) Pole or post (≤ 10 cm in diameter)	(77) Train
(51) Pole or post (> 10 cm but ≤ 30 cm in	(78) Trailer, disconnected in transport
diameter)	(88) Other nonfixed object (specify):
(52) Pole or post (> 30 cm in diameter)	(00)
(53) Pole or post (diameter unknown)	(89) Unknown nonfixed object
(53) Pole or post (diameter unknown)	,
(EA) Congrete treffic bernier	(98) Other event (specify):
(54) Concrete traffic barrier	
(55) Impact attenuator	(99) Unknown event or object
(56) Other traffic barrier (includes guardrail) (specify):	



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National Highway Traffic Safety

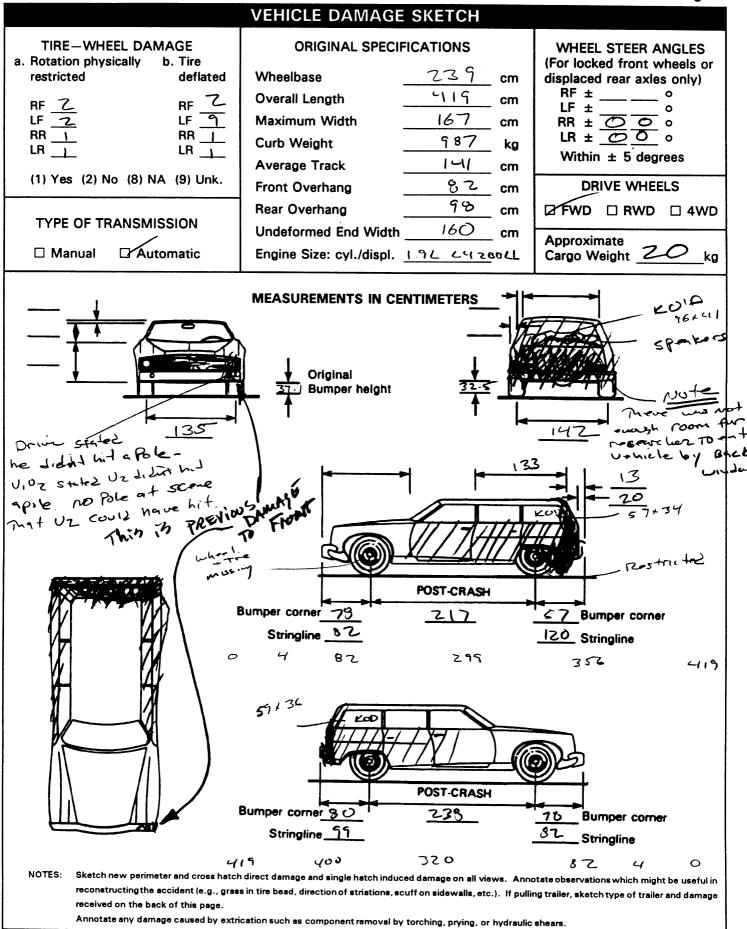
# EXTERIOR VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

<u>iministration</u>											
1. Prima	ry Sampling Unit N	umber	7	<u>Z</u> 3	. Vehicl	e Numb	er				2
2. Case	Number - Stratum	2	<u>531</u>	<u> </u>							
			VEHICLE	IDENT	IFICAT	ION					
'IN	FABP	349	4 F	W		alain ah Allendaria			Model \	/ear <u>8</u>	5
ehicle Ma	ake (specify):	Ford		<del></del>	Vehicle	Model (	specify):		≅Sc	ont	
			L	OCATO	DR						
ocate the	e end of the damag amaged axle for sid	e with respected impacts.	ct to the vel	hicle lon	gitudina	l center	line or l	oumper	corner f	or end ir	npacts
Specific I	Impact No.	Location	of Direct D	amage			L	ocation	of Field	L	
	01 30cm	(O) & C	enter + Can	tinus 9	16 cm	Buy	معد ر	crner -	70 B.	uper (	aner
				NTE (	Left-						
0	7 48 cm	O fremer	+ Contues	11cm To	ه آيو (ق)	40cm(	5 d c	enter ±	Continu	e Zlem	2 Tal
			SH PROFI								
s 1	Measure and docur	nent on the v	ehicle diag	ram the	front or	of max	imum c	rush.	707	Z Sin side	
F t s Specific Impact Number	Measure and docur Measure C1 to C6 impacts.  Free space value is the individual C loc side taper, etc. Re- Use as many lines/o	defined as thations. This cord the valucolumns as no Direct D Width (CDC)	ne distance may include e for each ( ecessary to Damage Max Crush	betwee e the fol C-measu describ Field L	n the ballowing: urement	seline a bumper and ma damage C <sub>2</sub>	r lead, b ximum profile.	original umper t crush.	body co aper, sid	ntour ta de protru C <sub>6</sub>	±D
Specific Impact	Free space value is the individual C loc side taper, etc. Resure as many lines/C Plane of Impact C-Measurements	defined as the ations. This cord the value columns as no Direct D	ne distance may include e for each ( ecessary to Damage Max Crush	betwee e the fol C-measu describ	n the ballowing: prement to the each of the C1	seline a bumper and ma damage C <sub>2</sub>	profile.	original umper t crush.	C <sub>5</sub>	ntour ta de protru C <sub>s</sub>	usion,
Specific Impact Number	Free space value is the individual C loc side taper, etc. Re Use as many lines/o Plane of Impact C-Measurements	defined as thations. This cord the valucolumns as no Direct D Width (CDC)	ne distance may include e for each ( ecessary to Damage Max Crush	betwee e the fol C-measu describ Field L	n the ballowing: urement be each of C1	seline a bumper and ma damage C <sub>2</sub>	profile.	crush.	C <sub>5</sub>	ntour ta de protru C <sub>8</sub>	±D
pecific mpact lumber	Free space value is the individual C loc side taper, etc. Resurements	defined as thations. This cord the valucolumns as no Direct D Width (CDC)	ne distance may include e for each ( ecessary to Damage Max Crush	betwee e the fol C-measu describ Field L	n the ballowing: prement to the each of the C <sub>1</sub>	seline a bumper and ma damage C <sub>2</sub>	profile.	original umper t crush.	C <sub>5</sub>	ntour ta de protru C <sub>s</sub>	±D
pecific mpact lumber	Free space value is the individual C loc side taper, etc. Re Use as many lines/o Plane of Impact C-Measurements	defined as thations. This cord the valucolumns as no Direct D Width (CDC)	ne distance may include e for each ( ecessary to Damage Max Crush	betwee e the fol C-measu describ Field L	n the ballowing: urement be each of C1	seline a bumper and ma damage C <sub>2</sub>	profile.	crush.	C <sub>5</sub>	ntour ta de protru C <sub>8</sub>	±D
Specific mpact lumber	Free space value is the individual C loc side taper, etc. Re Use as many lines/o Plane of Impact C-Measurements	defined as thations. This cord the valucolumns as no Direct D Width (CDC)	ne distance may include e for each ( ecessary to Damage Max Crush	betwee e the fol C-measu describ Field L	n the ballowing: urement be each of C1	seline a bumper and ma damage C <sub>2</sub>	profile.	crush.	C <sub>5</sub>	ntour ta de protru C <sub>8</sub>	±D
pecific mpact lumber	Free space value is the individual C loc side taper, etc. Re Use as many lines/o Plane of Impact C-Measurements	defined as thations. This cord the valucolumns as no Direct D Width (CDC)	ne distance may include e for each ( ecessary to Damage Max Crush	betwee e the fol C-measu describ Field L	n the ballowing: urement be each of C1	seline a bumper and ma damage C <sub>2</sub>	profile.	crush.	C <sub>5</sub>	ntour ta de protru C <sub>8</sub>	±D
pecific mpact lumber	Free space value is the individual C loc side taper, etc. Re Use as many lines/o Plane of Impact C-Measurements	defined as thations. This cord the valucolumns as no Direct D Width (CDC)	ne distance may include e for each ( ecessary to Damage Max Crush	between the fold C-measure describent Field L	n the ballowing: urement be each of C1	seline a bumper and ma damage C <sub>2</sub>	profile.	crush.	C <sub>5</sub>	ntour ta de protru C <sub>8</sub>	±D
Specific mpact lumber	Free space value is the individual C loc side taper, etc. Re  Use as many lines/  Plane of Impact  C-Measurements  Rear Bugan  Free space	defined as thations. This cord the value columns as no Direct D Width (CDC)	ne distance may include e for each ( ecessary to Damage Max Crush	between the fold C-measure describent Field L	n the ballowing: urement the each of the control of	seline a bumper and ma damage C <sub>2</sub>	profile.	crush.	C <sub>5</sub>	ntour ta de protru C <sub>8</sub>	±D -33
Specific Impact Number	Free space value is the individual C loc side taper, etc. Re  Use as many lines/o  Plane of Impact C-Measurements  Rear Bupon  Free space  Resultant	defined as thations. This cord the value columns as no Direct D Width (CDC)	ne distance may include e for each ( ecessary to Damage Max Crush	betwee e the fol C-measured describe Field L	n the ballowing: prement of the each of th	seline a bumper and made and mage	profile.  C <sub>3</sub> 64  7	crush.	C <sub>5</sub> 47 47 38	C <sub>6</sub> 27 6 21	±D -33
Specific Impact Number	Free space value is the individual C loc side taper, etc. Re  Use as many lines/  Plane of Impact  C-Measurements  Rear Bugan  Free space	defined as thations. This cord the valucolumns as no Width (CDC)	ne distance may include e for each ( ecessary to Damage Max Crush	between the fold C-measure describent Field L	n the ballowing: urement of the each of the control	seline a bumper and made and mage	profile.	crush.	C <sub>5</sub> 47  47  38	ntour ta de protru C <sub>8</sub>	±D -33

# ORIGINAL SPECIFICATIONS WORK SHEET

Wheelbase	<u>94.2</u>	inches	x	2.54	=	<u> </u>
Overall Length	165.0	inches	X	2.54	=	
Maximum Width	65.9	inches	X	2.54	=	167cm
Curb Weight	7,177	pounds	X	.4536	=	$\underline{},\underline{987}$ kg
Average Track 547-56	_55.4	inches	X	2.54	=	<u> </u>
Front Overhang 32.41-31.3	_32.4	inches	X	2.54	=	<u>8</u>
Rear Overhang 37. 3 - 36.4	38.4	inches	X	2.54	=	<u>9</u> <u>8</u> cm
Undeformed End Width		inches	X	2.54	=	cm
Engine Size: cyl./displ.		сс	X	.001	=	L
		CID	X	.0164	=	L



				CDC V	MUBREHE	E T				
CDC WORKSHEET										
CODES FOR OBJECT CONTACTED										
	(01-30)	Vehicle Nui	mher		<b>/5</b> '	7) Fense				
	(or do) verious regimes:					8) Wall				
	Noncolli	sion			•	9) Building	3			
	(31)	Overturn - ro	llover			0) Ditch o				
		Fire or explosi	on			1) Ground				
		Jackknife				<ol><li>Fire hyd</li></ol>	drant			
	(34)	Other intraunit	t damage (specif	y):		3) Curb				
	/25\	Nanadiai an is				4) Bridge		•• \		
		Noncollision in Other noncolli			(6	8) Other f	ixed object (	specity):		
	(30)	Other honcom	sion (specify):		16	9) Unknow	vn fixed obje	oct		
	(39)	Noncollision -	- details unknow	/n	(0	onkilov	vii lixed obje	CL		
	(00)			•••	Collis	sion with N	lonfixed Obje	ect		
	Collision	With Fixed O	bject				vehicle not in			
	(41)	Tree (≤ 10 cr	m in diameter)			2) Pedestr		•		
		Tree (> 10 cr			(7:	3) Cyclist	or cycle			
		Shrubbery or I	bush		(7	<ol><li>Other n</li></ol>	onmotorist c	or conveyand	ce	
	(44)	Embankment								
	(45)	Daniel	1			5) Vehicle	occupant			
	(45)	Breakaway po	le or post (any d	liameter)		6) Animal				
	Nonhre	akaway Pole or	Post			7) Train	disconnecte	d in transpa	-4	
			≤ 10 cm in diam	neter)			nonfixed obje			
			> 10 cm but ≤		,,	o, other i	iomixed obje	or (apcony).		
		diameter)			(8	9) Unknov	vn nonfixed	object		
			> 30 cm in diam					-		
	(53)	Pole or post (	diameter unknow	/n)	(9	8) Other e	event (specify	<b>/</b> ):		
	(F.4)	0				a. <del> </del>				
		Concrete traff			(9	9) Unknov	wn event or o	object		
		Impact attenu	ator parrier (includes g	auardrail)						
	(30)	(specify):	varrier (includes (	guaruranı						
			· · · · · · · · · · · · · · · · · · ·							
			DEFORMAT	TION CLASS	IFICATION E	BY EVENT	NUMBER			
	Accident		(1) (2)			(4) Specific	(5) Specific	(6)		
	Event		Direction	Incremental	(3)	Longitudinal		Type of	(7)	
	Sequence	•	of Force	Value of	Deformation	or Lateral	Lateral	Damage	Deformation	
	Number	Contacted	(degrees)	Shift	Location	Location	Location	Distribution	Extent	
	01	01	170		0	$\overline{\Omega}$		(1)	04	
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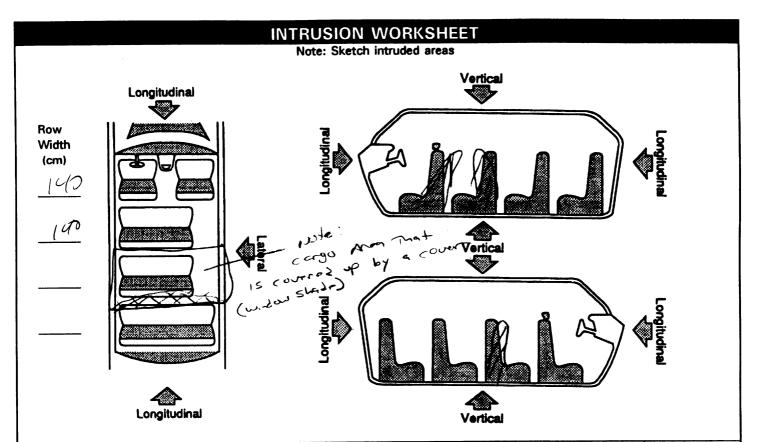
National Highway Traffic Safety

# INTERIOR VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

dministration	CRASHWORTHINESS DATA SYSTEM
15: 6 1: 11:11	GLAZING
1. Primary Sampling Unit Number 72	Glazing Damage from Impact Forces
2. Case Number - Stratum Z 5 3 K	15. WS <u>2</u> 16. LF <u>0</u> 17. RF <u>0</u> 18. LR <u>0</u> 19. RR <u>0</u>
3. Vehicle Number	20. BL 6 21. Roof 22. Other 6
INTEGRITY	
4. Passenger Compartment Integrity (00) No integrity loss  Yes, Integrity Was Lost Through	<ul> <li>(0) No glazing damage from impact forces</li> <li>(2) Glazing in place and cracked from impact forces</li> <li>(3) Glazing in place and holed from impact forces</li> <li>(4) Glazing out-of-place (cracked or not) and not holed from impact forces</li> <li>(5) Glazing out-of-place and holed from impact forces</li> </ul>
(O1) Windshield (O2) Door (side) (O3) Door/hatch (back door) (O4) Roof (O5) Roof glass	<ul> <li>(6) Glazing disintegrated from impact forces</li> <li>(7) Glazing removed prior to accident</li> <li>(8) No glazing</li> <li>(9) Unknown if damaged</li> </ul>
(06) Side window (07) Rear window (backlight) — 964 41	Glazing Damage from Occupant Contact
(08) Root and root glass (09) Windshield and door (side)	23. WS <u>0</u> 24. LF <u>0</u> 25. RF <u>0</u> 26. LR <u>0</u> 27. RR <u>0</u>
(10) Windshield and roof (11) Side and rear window (side window and backlight)	28. BL <u></u>
<ul><li>(12) Windshield and side window</li><li>(13) Door and side window</li><li>(98) Other combination of above (specify):</li></ul>	<ul> <li>(0) No occupant contact to glazing or no glazing</li> <li>(1) Glazing contacted by occupant but no glazing damage</li> <li>(2) Glazing in place and cracked by occupant contact</li> </ul>
(99) Unknown	<ul> <li>(3) Glazing in place and holed by occupant contact</li> <li>(4) Glazing out-of-place (cracked or not) by occupant contact and not holed by occupant contact</li> <li>(5) Glazing out-of-place by occupant contact and holed by</li> </ul>
Door, Tailgate or Hatch Opening	occupant contact (6) Glazing disintegrated by occupant contact
5. LF <u>3</u> 6. RF <u>3</u> 7. LR <u>3</u> 8. RR <u>3</u> 9. TG/H <u>3</u>	(9) Unknown if contacted by occupant
(0) No door/gate/hatch (1) Door/gate/hatch remained closed and operational	If No Glazing Damage <i>And</i> No Occupant Contact or No Glazing, Then Code IV31 Through IV46 As Ø
(2) Door/gate/hatch came open during collision	
(3) Door/gate/hatch jammed shut (8) Other (specify):	Type of Window/Windshield Glazing
(9) Unknown	31. WS / 32. LF 33. RF 34. LR 35. RR
	36. BL_7 37. Roof <u></u> 38. Other <u></u> ∫
Damage/Failure Associated with Door, Tailgate or Hatch Opening in Collision. If IV05-IV09 ≠ 2, Then code Ø	(0) No glazing contact and no damage, or no glazing (1) AS-1 — Laminated (2) AS-2 — Tempered (3) AS-3 — Tempered-tinted
10. LF 11. RF 12. LR 13. RR 14. TG/H	(4) AS-14 — Glass/Plastic (8) Other (specify):
(O) No door/gate/hatch or door not opened	(9) Unknown
Door, Tailgate or Hatch Came Open During Collision	
<ul><li>(1) Door operational (no damage)</li><li>(2) Latch/striker failure due to damage</li></ul>	Window Precrash Glazing Status
(3) Hinge failure due to damage	39. WS / 40. LF O41. RF O42. LR O43. RR
<ul><li>(4) Door structure failure due to damage</li><li>(5) Door support (i.e., pillar, sill, roof side rail,</li></ul>	44. BL / 45. Roof / 46. Other /
etc.) failure due to damage (6) Latch/striker and hinge failure due to damage	
(8) Other failure (specify):	(0) No glazing contact and no demage, or no glazing (1) Fixed (2) Closed
(9) Unknown	(2) Closed (3) Partially opened (4) Fully opened (9) Unknown

#### **OCCUPANT AREA INTRUSION** Note: If no intrusions, leave variables IV47-IV86 blank. **INTRUDING COMPONENT** Interior Components **Dominant** Location of Intruding Megnitude Crush (01) Steering assembly Intrusion Direction Component of Intrusion (02) Instrument panel left (03) Instrument panel center (04) Instrument panel right 1st 47. 9 8 48. 25 49. 5 50. 2 (05) Toe pan (06) A (A1/A2)-pillar (07) B-pillar (08) C-pillar 2nd 51. 2 52. 19 53. 3 54. 2 (09) D-pillar (10) Door panel (side) (12) Roof (or convertible top) (13) Roof side rail 3rd 55. 73 56. 70 57. 7 58. 7 (14) Windshield (15) Windshield header (16) Window frame 4th 59. 21 60. 20 61. 2 62. 2 (17) Floor pan (includes sill) (18) Backlight header (19) Front seat back (20) Second seat back 5th 63. 22 64. 20 65. 2 66. 2 (21) Third seat back (22) Fourth seat back (23) Fifth seat back (24) Seat cushion (25) Back door/panel (e.g., tailgate) 6th 67.\_\_\_ 68.\_\_ 69.\_\_ 70.\_\_ (26) Other interior component (specify): (27) Side panel - forward of the A (A2)-pillar (28) Side panel - rear of the A (A2)-pillar 7th 71.\_\_\_ 72.\_\_\_ 73.\_\_ 74.\_\_ **Exterior Components** (30) Hood (31) Outside surface of this vehicle (specify): 75.\_\_\_ 76.\_\_ 77.\_\_ 78.\_\_ (32) Other exterior object in the environment (specify): 9th 79.\_\_\_ 80.\_\_\_ 81.\_\_ 82.\_\_ (33) Unknown exterior object (97) Catastrophic (98) Intrusion of unlisted component(s) (specify): 10th 83. 84. 85. 86. (99) Unknown LOCATION OF INTRUSION MAGNITUDE OF INTRUSION (1) ≥ 3 centimeters but < 8 centimeters Front Seat Fourth Seat (2) ≥ 8 centimeters but < 15 centimeters (11) Left (41) Left (3) ≥ 15 centimeters but < 30 centimeters (12) Middle (42) Middle (4) ≥ 30 centimeters but < 46 centimeters (13) Right (43) Right (5) ≥ 46 centimeters but < 61 centimeters (6) ≥ 61 centimeters Second Seat (97) Catastrophic (7) Catastrophic (21) Left (98) Other enclosed (9) Unknown (22) Middle area (specify) (23) Right (99) Unknown **DOMINANT CRUSH DIRECTION Third Seat** (1) Vertical (31) Left (32) Middle (2) Longitudinal (3) Lateral (33) Right (7) Catastrophic (9) Unknown

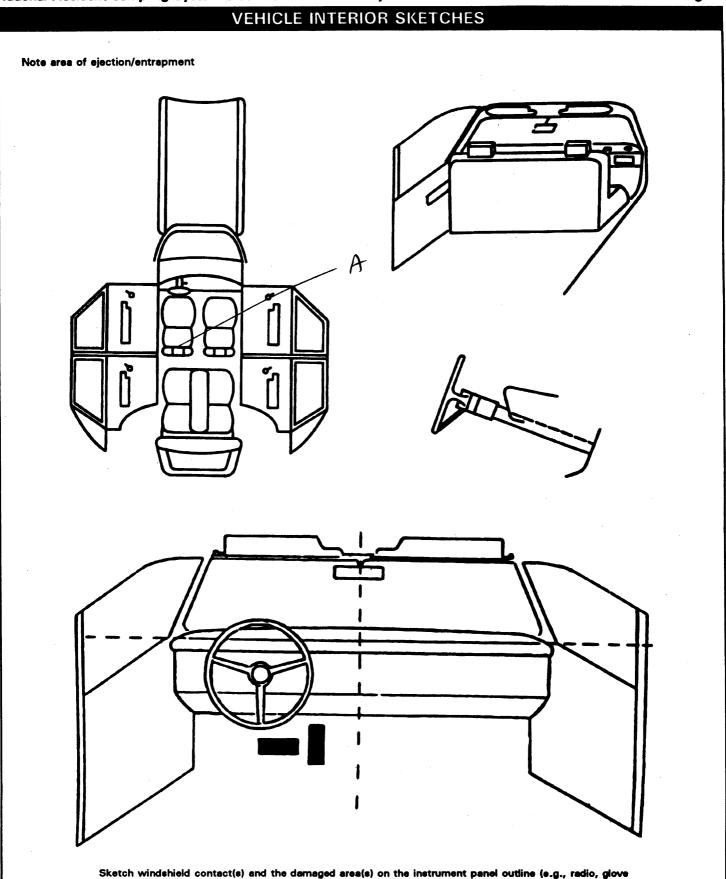


LOCATION OF INTRUSION	INTRUDED COMPONENT	COMPARISON VALUE	Meas	urements Are in Cen INTRUDED VALUE	timeters)	INTRUSION	DOMINANT CRUSH DIRECTION	
71	Fort sout Secure Sout Buil Sound Sout Buil Sound Sout Buil Tail Grute	59	_	42	=	17	Long	6
7.1	Secret Sout Bail	67		54	=	13	luj	8
22	Spand Sand Buch	67		55	=	12	Con	0
23	Seen) Sart Book	67	_	52	=	15	Con	3
98	Tail Grute	135	_	75	=	60	رص	(O)
			_		=			
			_		=			
			_		=			
			_		=			
			_		=			1
			_		=			1
					=	, , , , , , , , , , , , , , , , , , , ,		1
			_		=			
			_		=			1
			_		=			]

	(All	Measurements Are in Centimet	ers)	
COMPARISON VALUE	-	DAMAGE VALUE	=	DEFORMATION
12	<del>-</del>	12	=	0
12	_	12	=	0
	-		=	
	_		=	
				•

TB

87. Steering Column Type (1) Fixed column	93. Location of Steering Rim/Spoke Deformation (00) No steering rim deformation
(2) Tilt column (3) Telescoping column (4) Tilt and telescoping column (8) Other column type (specify):  (9) Unknown	Quarter Sections (01) Section A (02) Section B (03) Section C (04) Section D
	Half Sections (05) Upper half of rim/spoke (06) Lower half of rim/spoke (07) Left half of rim/spoke (08) Right half of rim/spoke
88. Blank (This variable is left blank so that numbering consistency can be maintained with the 1988-93 CDS.	(09) Complete steering wheel collapse (10) Undetermined location (99) Unknown
	INSTRUMENT PANEL
89. Blank (This variable is left blank	94. Odometer Reading
so that numbering consistency can be maintained with the 1988-93 CDS.	kilometers—Code to the nearest 1,000 kilometers (000) No odometer (001) Less than 1,500 kilometers (500) 499,500 kilometers or more (999) Unknown
90. Blank (This variable is left blank so that numbering consistency can be maintained with the 1988-93 CDS.	76,419 <sub>miles x 1.6083 = 177,979 kilometers</sub> Source:
91. Blank (This variable is left blank so that numbering consistency can be maintained with the 1988-93 CDS.	95. Instrument Panel Damage from Occupant Contact? (0) No (1) Yes (9) Unknown
92. Steering Rim/Spoke Deformation  Code actual measured deformation to the nearest centimeter (00) No steering rim deformation	96. Knee Bolsters Deformed from Occupant Contact? (0) No (1) Yes (8) Not present (9) Unknown
(01-14) Actual measured value in centimeters (15) 15 centimeters or more (98) Observed deformation cannot be measured (99) Unknown	97. Did Glove Compartment Door Open During Collision(s)? (0) No (1) Yes (8) Not present (9) Unknown



compartment, damage to instrument panel structure.

Cross hatch contact points, draw spider webs or use other annotation as may be appropriate.

Annotate the contacted area with a letter (begin with A) and list on the Points of Occupant Contact page.

(9) Unknown

		POI	VTS (	OF OC	CUPANT CONTAC	CT		
Conta	Interior Component act Contacted	Occupant No. If Known	R	Body egion If nown	Supporting Ph	ysical E	vidence	Confidence Level of Contact Point
Α	40	01	C	igell	Dolanie		•	,
В				_ <del>`````</del>				•
С								
D			<b>-</b>					
E								
F								
G								
Н								
ı								
J								
K								
L								
М								
N								
(02)	Windshield Mirror		(24)		pillar (specify):		Interior loose object	:8
	Sunvisor Steering wheel rim			Left side v	window glass or frame window glass including	(48)	Child safety seat (s	
	Steering wheel hub/sp Steering wheel (combi			frame, wi	ore of the following: ndow sill, A (A1/A2)-pillar,	(49)	Other interior object	t (specify): 
(07)	of codes 04 and 05) Steering column, trans		(27)	•	r roof side rail. side object (specify):	ROOF		
(08)	selector lever, other at Add on equipment (e.g		(28)	Left side	window sill	(50) (51)		
(09)	deck, air conditioner) Left instrument panel	and helow	RIGHT	SIDE		(52) (53)	Roof left side rail Roof right side rail	
	Center instrument pan				interior surface,	i:	Roof or convertible	top
	Right instrument panel				hardware or armrests			
	Glove compartment do	or	(31)		hardware or armrest	FLOOR (56)	Floor (including toe	
	Knee bolster Windshield including o	ne or more	(32) (33)	Right B-pi	∖1/A2)-piller ller		Floor or console mo	•
,	of the following: front		(34)		nt pillar (specify):	,,	transmission lever,	
	A (A1/A2)-piller, instru	•					console	_
	mirror, or steering ass	embly (driver	(35)		window glass or frame		Parking brake hand	
(15)	side only) Windshield including o	ne or more	(36)	-	window glass including ore of the following:	(55)	Foot controls included brake	iing parking
(10)	of the following: front				ndow sill, A (A1/A2)-pillar,		Diako	
	A (A1/A2)-pillar, instru	-			r roof side rail.	REAR		
	mirror (passenger side	only)	(37)	Other righ	nt side object (specify):	(60)	Backlight (rear wind	dow)
(16)	Driver side air bag cor	npartment		-		(61)	Backlight storage re	
(17)	cover Passenger side air bag	•	(38)	Right side	window sill	(62)	Other rear object (s	ipecity):
	compartment cover		INTERI					
(18)	Windshield reinforced	by exterior						<del></del>
(4.0)	object (specify):		(41)		aint webbing/buckle		CONFIDENCE : E	(EL OF
(19)	Other front object (sp	ecity):	(42)	attachme	sint B-pillar nt point		CONFIDENCE LEV	
			(43)		traint system component	1		
LEFT SI	_			(specify):		1	(1) Certain	
(20)	Left side interior surfa	-			traint system	1	(2) Probable	
	excluding hardware or		(45)	•	use codes "16" and "17"		(3) Possible	

for injuries sustained from air bag

compartment covers)

(21) Left side hardware or armrest

(22) Left A (A1/A2)-pillar

### **AUTOMATIC RESTRAINTS** NOTES: Encode the data for each applicable front seat position. The attribute for the variables may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form. **AIR BAGS** Right Left Availability/Function Deployment R **Failure** Air Bag System Availability/Function Air Bag System Deployment Did Air Bag System Fall? (0) Not equipped/not available (O) Not equipped/not available (O) Not equipped/not available (1) Air bag (1) Air bag deployed during accident (1) No (2) Yes (specify): (as a result of impact) Non-functional (2) Air bag deployed inadvertently just (9) Unknown prior to accident (2) Air bag disconnected (specify): (3) Air bag deployed, accident sequence (3) Air bag not reinstalled undetermined Nondeployed (9) Unknown (5) Unknown if deployed (6) Air bag deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (9) Unknown **AUTOMATIC BELTS** Right Left Availability/Function F Use R Type S **Proper Use Failure Modes**

#### Automatic (Passive) Belt System Availability/Function

- (O) Not equipped/not available
- (1) 2 point automatic belts
- (2) 3 point automatic belts
- (3) Automatic belts type unknown

#### Non-functional

- (4) Automatic belts destroyed or rendered inoperative
- (9) Unknown

# Automatic (Passive) Belt System Use

- (0) Not equipped/not available/destroyed or rendered inoperative
- (1) Automatic belt in use
- (2) Automatic belt not in use (manually disconnected, motorized track inoperative)
- (3) Automatic belt use unknown
- (9) Unknown

# Automatic (Passive) Belt System Type

- (0) Not equipped/not available
- (1) Non-motorized system
- (2) Motorized system .
- (9) Unknown

# Proper Use of Automatic (Passive) Belt System

- (0) Not equipped/not available/not used
- (1) Automatic belt used properly
- (2) Automatic belt used properly with child safety seat

#### Automatic Belt Used Improperty

- (3) Automatic shoulder belt worn under
- (4) Automatic shoulder belt worn behind back
- (5) Automatic belt worn around more than one person
- (6) Lap portion of automatic belt worn on abdomen
- (7) Automatic lap and shoulder belt or automatic shoulder belt used improperly with child safety seat (specify):
- (8) Other improper use of automatic belt system (specify):
- (9) Unknown

### Automatic (Passive) Belt Failure Modes During Accident

- (0) Not equipped/not available/not in use
- (1) No automatic belt failure(s)
- (2) Torn webbing (stretched webbing not included)
- (3) Broken buckle or latchplate
- (4) Upper anchorage separated
- (5) Other anchorage separated (specify):
- (6) Broken retractor
- (7) Combination of above (specify):
- (8) Other automatic belt failure (specify):
- (9) Unknown

# MANUAL RESTRAINTS

NOTES: Encode the applicable data for each seat position in the vehicle. The attribute for the variable may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Ocupant Assessment Form.

If a Child safety seat is present, encode the data on the back of this page.

If the vehicle has automatic restraints available, encode the appropriate data on the back of the previous page.

		Left	Center	Right
F	Availability	Ч	O	4
RS	Use	00	00	00
T	Failure Modes	0	0	0
S	Availability	3	3	3
SECOZO	Use	00	60	00
N D	Failure Modes	6	0	Ö
T H	Availability			
1 1	Use			
R D	Failure Modes			
Q	Availability			
<u> </u>	Use			
E R	Failure Modes			

# Manual (Active) Belt System Availability

- (0) None available
- (1) Belt removed/destroyed
- (2) Shoulder belt
- (3) Lap belt
- (4) Lap and shoulder belt
- (5) Belt available type unknown

# Integral Belt Partially Destroyed

- (6) Shoulder belt (lap belt destroyed/removed)
- (7) Lap belt (shoulder belt destroyed/removed)
- (8) Other belt (specify):
- (9) Unknown

# Manual (Active) Belt System Use

- (00) None used, not available, or belt removed/destroyed
- (01) Inoperable (specify):
- (02) Shoulder belt
- (03) Lap belt
- (04) Lap and shoulder belt
- (05) Belt used type unknown

- (08) Other belt used (specify):
- (12) Shoulder belt used with child safety seat
- (13) Lap belt used with child safety seat
- (14) Lap and shoulder belt used with child safety seat
- (15) Belt used with child safety seat type unknown
- (18) Other belt used with child safety seat (specify):\_\_\_\_\_
- (99) Unknown if belt used

# Manual (Active) Belt Failure Modes During Accident

- (0) No manual belt used or not available
- (1) No manual belt failure(s)
- (2) Torn webbing (stretched webbing not included)
- (3) Broken buckle or latchplate
- (4) Upper anchorage separated
- (5) Other anchorage separated (specify):
- (6) Broken retractor
- (7) Combination of above (specify):
- (8) Other manual belt failure (specify):
- (9) Unknown

	CHILD SAFE	TY SEAT F	IEL	D ASSE	SSMENT		
	en a child safety seat is present enter the occupant's number using the codes list						
Oc	cupant Number						
1.	Type of Child Safety Seat			1/1			
2.	Child Safety Seat Orientation	1	1	// \			
3.	Child Safety Seat Harness Usage			<b>V</b>			
4.	Child Safety Seat Shield Uasge						
5.	Child Safety Seat Tether Usage						
6.	Child Safety Seat Make/Model	Specif	y Be	low for E	ach Child Safe	ety Seat	
1.	Type of Child Safety Seat		3.	Child Safe	ety Seat Harn	ess Usage	
	(0) No child safety seat (1) Infant seat		4.	Child Saf	ety Seat Shiel	d Usage	
	(2) Toddler seat		5.	Child Safe	ety Seat Tetho	er Usage	
	(3) Convertible seat (4) Booster seat		•		tions Below A		ariables 3-5.
	(7) Other type child safety seat (specific	y):		(00) No	child safety se	eat	
	(8) Unknown child safety seat type (9) Unknown if child safety seat used			(01) Afte	gned with Harder or market harded, not used		
2.	Child Safety Seat Orientation			(02) Afte	er market harn		
	(00) No child safety seat				d safety seat ness/shield/tet		after market
	Designed for Rear Facing for This Age/Weight (01) Rear facing			(09) Unk	nown if harne ed or used		ər
	(02) Forward facing			Designed	With Harness	/Shield/Tether	
	(08) Other orientation (specify):				ness/shield/tet		
	(09) Unknown orientation	_			ness/shield/tet nown if harne		er used
	Designed for Forward Facing for This				If Designed V		Shield/Tether
	Age/Weight (11) Rear facing				ness/shield/te1 ness/shield/te1		
	(12) Forward facing				nown if harne		er used
	(18) Other orientation (specify):			/OO\ 11-1			•
	(19) Unknown orientation	_	6		nown if child ety Seat Make		ied
	Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing	S	•	(Specify	make/model a	nd occupant n	umber)
*	(28) Other orientation (specify):						
	(29) Unknown orientation						
	(99) Unknown if child safety seat used						

# HEAD RESTRAINTS/SEAT EVALUATION

NOTES: Encode the applicable data for each seat position in the vehicle. The attribute for these variables may be found at the bottom of the page. Head restraint type/damage and seat type/performance should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

		Left	Center	Right
F	Head Restraint Type/Damage	3	O	3
I R	Seat Type	01	00	01
	Seat Performance	5	2	4
	Seat Orientation		υ	1
	Head Restraint Type/Damage	0	0	0
	Seat Type	05	05	05
)	Seat Performance	6	6	6
	Seat Orientation	(	(	1
	Head Restraint Type/Damage			
	Seat Type			
	Seat Performance			
	Seat Orientation		:	
	Head Restraint Type/Damage			
	Seat Type			
	Seat Performance			
	Seat Orientation			

Head	Restraint	Type/Damage	by	Occupant	at	This
	oant Posit			•		

- (0) No head restraints
- (1)
- Integral no damage Integral damaged during accident
- (3) Adjustable no damage
- (4) Adjustable damaged during accident
- (5) Add-on no damage(6) Add-on damaged during accident
- (8) Other Specify):
- (9) Unknown

#### Seat Type (this Occupant Position)

- (00) Occupant not seated or no seat
- (01)**Bucket**
- (02)Bucket with folding back
- (03) Bench
- (04) Bench with separate back cushions
- (05)Bench with folding back(s)
- (06) Split bench with separate back cushions
- (07) Split bench with folding back(s)
- (08) Pedestal (i.e., column supported)
- (09) Other seat type (specify):
- (10) Box mounted seat (i.e., van type)
- (99) Unknown

## Seat Performance (this Occupant Position)

- (0) Occupant not seated or no seat
- (1) No seat performance failure(s)
- (2) Seat adjusters failed
- (3) Seat back folding locks or "seat back" failed specify:

J.OI

- (4) Seat tracks/anchors failed
- (5) Deformed by impact of occupant
- (6) Deformed by passenger compartment intrusion (specify):
- (7) Combination of above (specify):
- (8) Other (specify):
- (9) Unknown

#### Seat Orientation (this Occupant Position)

- (0) Occupant not seated or no seat
- (1) Forward facing seat
- (2) Rear facing seat
- (3) Side facing seat (inward)
- (4) Side facing seat (outward)
- (8) Other (specify):
- (9) Unknown

# DESCRIBE ANY INDICATION OF ABNORMAL OCCUPANT POSTURE (I.E., UNUSUAL OCCUPANT CONTACT PATTERN)

	5	JECTION/	ENTRAPI	/IENT DA	ΛTΑ		-	
Complete the following if the researcher has any indication that an occupant was either ejected from or entrapped in the vehicle. Code the appropriate data on the Occpant Assessment Form.							ped	
	CTION No [ ] Yes [ ] cribe indications of ejection and I	oody parts in	volved in pa	rtial ejection	n(s):	<del></del>		
<u>r</u>	re Back windows of did find his premises was unab	16 70	Te s	volle vo	hicle T	مه <del>مر</del> کرمی ۲	e Ree	
	Occupant Number	01						
	Ejection	1						Rospieher
	(Note on Vehicle Interior Sketch) Ejection Area	6						160 bs
	Ejection Medium	3						V25)1
	Medium Status	2						] 140 lbs
Ejection (1) Complete ejection (1) Partial ejection (3) Ejection, Unknown degree (9) Unknown  Ejection Area (1) Windshield (1) Windshield (2) Left front (3) Right front (4) Left rear (6) Rear  (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown  (9) Unknown  Ejection Medium (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify): (5) Integral structure (8) Other medium (specify): (9) Unknown  Medium Status (Immediately Prior to Impact) (1) Open (2) Closed (3) Integral structure (9) Unknown  (1) Open (2) Closed (3) Integral structure (9) Unknown								
	RAPMENT No [ Yes [ ribe entrapment mechanism:	· •						
Comp	ponent(s):							
(Note	in vehicle interior diagram)			· -				



U.S. Department of Transportation

# **OCCUPANT ASSESSMENT FORM**

Form Approved O.M.B. No. 2127-0021

National Highway Traffic Safety Administration NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number	OCCUPANT'S SEATING
	10. Occupant's Seat Position
2. Case Number - Stratum 253 K	Front Seat
3. Vehicle Number	(11) Left side (12) Middle
4. Occupant Number	(13) Right side
OCCUPANT'S CHARACTERISTICS	(14) Other (specify):
OCCUPANT 3 CHARACTERISTICS	(15) On or in the lap of another occupant
5. Occupant's Age	Second Seat
Code actual age at time of accident.  (00) Less than one year old (specify by month):	(21) Left side (22) Middle
	(23) Right side
(97) 97 years and older (99) Unknown	(24) Other (specify): (25) On or in the lap of another occupant
(33) GIRIOWII	
	Third Seat (31) Left side
6. Occupant's Sex	(32) Middle
(1) Male	(33) Right side
(2) Female (9) Unknown	(34) Other (specify): (35) On or in the lap of another occupant
(0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0	·
	Fourth Seat (41) Left side
7. Occupant's Height	(42) Middle
Code actual height to the nearest	(43) Right side
centimeter. (999) Unknown	(44) Other (specify):(45) On or in the lap of another occupant
$64_{\text{inches}} \times 2.54 = 163_{\text{centimeters}}$	
	(97) In or on unenclosed area (98) Other seat (specify):
	(99) Unknown
8. Occupant's Weight	_
Code actual weight to the nearest	
kilogram. (999)Unknown	11. Occupant's Posture (0) Normal posture
	Abnormal posture
140 pounds X .4536 = $064$ kilograms	(1) Kneeling or standing on seat
	(2) Lying on or across seat (3) Kneeling, standing or sitting in front of seat
0.0000000000000000000000000000000000000	(4) Sitting sideways or turned to talk with another
9. Occupant's Role	occupant or to look out a rear window (5) Sitting on a console
(2) Passenger	(6) Lying back in a reclined seat position (7) Bracing with feet or hands on a surface in front
(9) Unknown	of seat
	(8) Other abnormal posture (specify):
	(9) Unknown
	,
	·
	·

EJEC	TION/E	NTRAPMENT
12. Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown		15. Medium Status (Immediately Prior To Impact) (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown
13. Ejection Area (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown	6	16. Entrapment (NOTE: Entrapped means that part of the person was in the vehicle and mechanically restrained; jammed doors and immobilizing injuries by themselves are not sufficient to constitute entrapment.) (0) Not entrapped (1) Entrapped (9) Unknown
14. Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify):  (5) Integral structure (8) Other medium (specify):  (9) Unknown	3	

	RESTRAINT SYST	EM E	/ALUATION	
17.	Manual (Active) Belt System Availability (0) None available (1) Belt removed/destroyed (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt available—type unknown  Integral Belt Partially Destroyed (6) Shoulder belt (lap belt destroyed/removed)	(0 (1 N (2	ir Bag System Availability/Function  Not equipped/not available  Non-functional  Air bag disconnected (specify):  Air bag not reinstalled  Unknown	0
18.	(7) Lap belt (shoulder belt destroyed/removed) (8) Other belt (specify): (9) Unknown  Manual (Active) Belt System Use (00) None used, not available, or belt removed/destroyed (01) Inoperative (specify): (02) Shoulder belt (03) Lap belt (04) Lap and shoulder belt (05) Belt used—type unknown (08) Other belt used (specify):	(2 (3 (4 (5	ir Bag System Deployment  Not equipped/not available  Air bag deployed during accident (as a result of impact)  Air bag deployed inadvertently just prior to accident  Air bag deployed, accident sequence undetermined  Nondeployed  Unknown if deployed  Air bag deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)  Unknown	0
19.	(12) Shoulder belt used with child safety seat (13) Lap belt used with child safety seat (14) Lap and shoulder belt used with child safety seat (15) Belt used with child safety seat—type unknown (18) Other belt used with child safety seat (specify): (99) Unknown if belt used  Proper Use of Manual (Active) Belts	Si (0 (1 (2 (9	re There Indications of Air Bag ystem Failure? )) Not equipped/not available 1) No 2) Yes (specify):  0) Unknown	0
	<ul> <li>(0) None used or not available</li> <li>(1) Belt used properly</li> <li>(2) Belt used properly with child safety seat</li> <li>Belt Used Improperly</li> <li>(3) Shoulder belt worn under arm</li> <li>(4) Shoulder belt worn behind back or seat</li> <li>(5) Belt worn around more than one person</li> <li>(6) Lap belt worn on abdomen</li> <li>(7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify):</li> <li>(8) Other improper use of manual belt system (specify):</li> <li>(9) Unknown</li> </ul>	24. Po (0 (1 (2 (3 (4 (5 (7	ote: See Variables 44 through 48 (Page 5) for Information on Automatic Belts  olice Reported Restraint Use ) None used ) Police did not indicate restraint use c) Shoulder belt d) Lap belt l) Lap and shoulder belt d) Belt used, type not specified d) Child safety seat v) Other or automatic restraint (specify):	1
	Manual (Active) Belt Failure Modes During Accident (0) No manual belt used (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other manual belt failure (specify):		3) Restrained, type unknown 9) Police indicated "unknown"	

	HEAD RESTRAINT AN	D SE	AT EVALUATION
at TI (0) (1) (2) (3) (4) (5) (6) (8) (9) Seat (00) (01) (02) (03) (04) (05) (06) (07) (08) (09)	d Restraint Type/Damage by Occupant his Occupant Position No head restraints Integral—no damage Integral—damaged during accident Adjustable—no damage Adjustable—damaged during accident Add-on—no damage Add-on—damaged during accident Other (specify):  Unknown  Type (this Occupant Position) Occupant not seated or no seat Bucket Bucket with folding back Bench Bench with separate back cushions Bench with folding back(s) Split bench with separate back cushions Split bench with folding back(s) Pedestal (i.e., column supported) Other seat type (specify):  Box mounted seat (i.e., van type) Unknown	27.	Seat Performance (this Occupant Position) (0) Occupant not seated or no seat (1) No seat performance failure(s) (2) Seat adjusters failed (3) Seat back folding locks or "seat back" failed (4) Seat track/anchors failed (5) Deformed by impact of occupant (6) Deformed by passenger compartment intrusion (specify):  (7) Combination of above (specify): (8) Other (specify): (9) Unknown

	CHILD SA	AFETY SEAT
28.	Child Safety Seat Make/Model (000) No child safety seat Applicable codes are found in your NASS CDS Data Collection, Coding and Editing	31. Child Safety Seat Harness Usage  32. Child Safety Seat Shield Usage
	(950) Built-in child safety seat (997) Other make/model (specify):  (998) Unknown make/model	33. Child Safety Seat Tether Usage
	(999) Unknown if child safety seat used	Note: Options below applicable to Variables OA31-OA33. (00) No child safety seat
29.	Type of Child Safety Seat (0) No child safety seat (1) Infant seat	Not Designed With Harness/Shield/Tether (01) After market harness/shield/tether added, not used
	<ul><li>(2) Toddler seat</li><li>(3) Convertible seat</li><li>(4) Booster seat</li><li>(7) Other type child safety seat (specify):</li></ul>	(02) After market harness/shield/tether used (03) Child safety seat used, but no after market harness/shield/tether added (09) Unknown if harness/shield/tether
	(8) Unknown child safety seat type (9) Unknown if child safety seat used	added or used  Designed With Harness/Shield/Tether (11) Harness/shield/tether not used (12) Harness/shield/tether used
30.	Child Safety Seat Orientation (00) No child safety seat  Designed for Rear Facing for This Age/Weight (01) Rear facing (02) Forward facing (08) Other orientation (specify):  (09) Unknown orientation	(19) Unknown if harness/shield/tether used  Unknown If Designed With Harness/Shield/Tether (21) Harness/shield/tether not used (22) Harness/shield/tether used (29) Unknown if harness/shield/tether used (99) Unknown if child safety seat used
	Designed For Forward Facing for This Age/Weight (11) Rear facing (12) Forward facing (18) Other orientation (specify): (19) Unknown orientation  Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing (28) Other orientation (specify): (29) Unknown orientation (99) Unknown if child safety seat used	

	INJURY CONSEQUENCES	
	7	38. Working Days Lost  Code the number of days
34.	Injury Severity (Police Rating) 3	(up through 60) that the occupant
	(0) O - No injury	lost from work due to the accident
	(1) C - Possible injury	(00) No working days lost
	(2) B - Nonincapacitating injury	(61) 61 days or more
	(3) A - Incapacitating injury	(62) Fatally injured
	(4) K - Killed	(97) Not working prior to accident
	(5) U - Injury, severity unknown	(33) Olikilowii
	(6) Died prior to accident	
	(9) Unknown	STOP - GO TO VARIABLE 44 ON PAGE 7
		VARIABLES 39 THROUGH 43 ARE
35.	Treatment - Mortality	COMPLETED BY THE ZONE CENTER
	(0) No treatment	Som Elieb by the Eolee Cheren
	(1) Fatal	200
	(2) Fatal - ruled disease (specify):	39. Time to Death
		Code number of hours from time of
	Nonfatal	accident to time of death up through 24
	(3) Hospitalization	hours. If time of death is greater than 24
	(4) Transported and released	hours, code number of days. (Note: 1 day =
	(5) Treatment at scene - nontransported	31, 2 days = 32, n days = 30 + n up through 30 days = 60)
	(6) Treatment later	(00) Not fatal
	(8) Treatment - other (specify):	(96) Fatal - ruled disease
	(9) Unknown	(99) Unknown
	(9) Unknown	
	,	40. 1st Medically Reported Cause of Death
36.	Type Of Medical Facility (for Initial Treatment)	40. 1st Medically Reported Cause of Death
	(0) Not treated at a medical facility	41. 2nd Medically Reported Cause of Death
	(1) Trauma center	
	(2) Hospital	42. 3rd Medically Reported Cause of Death
	(3) Medical clinic (4) Physician's office	Code the Occupant Injury from line
	(5) Treatment later at medical facility	number(s) for the medically reported
	(8) Other (specify):	injury(s) which reportedly contributed to this occupant's death
		(00) Not fatal or no additional causes
	(9) Unknown	(97) Other result (includes fatal ruled
		disease) (specify):
27	Hospital Stay	
37.	(00) Not Hospitalized	(99) Unknown
	Code the number of days (up through 60)	
	that the occupant stayed in hospital.	43. Number of Recorded Injuries for
	(61) 61 days or more	This Occupant
	(99) Unknown	Code the actual number of
		injuries recorded for this occupant.
	l	(00) No recorded injuries
		(97) Injured, details unknown
		(99) Unknown if injured

	AUTOMATIC BELT SYSTEM		48. Automatic (Passive) Belt Failure Modes
44.	Automatic (Passive) Belt System Availability/ Function (0) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown	0	During Accident (0) Not equipped/not available/not in use (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify):
	Non-functional (4) Automatic belts destroyed or rendered inoperative (9) Unknown		<ul> <li>(6) Broken retractor</li> <li>(7) Combination of above (specify):</li> <li>(8) Other automatic belt failure (specify):</li> <li>(9) Unknown</li> </ul>
45.	Automatic (Passive) Belt System Use (0) Not equipped/not available/destroyed or rendered inoperative (1) Automatic belt in use (2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify):  (3) Automatic belt use unknown (9) Unknown	<u>O</u>	49. Seat Orientation (this Occupant Position) (0) Occupant not seated or no seat (1) Forward facing seat (2) Rear facing seat (3) Side facing seat (inward) (4) Side facing seat (outward) (8) Other (specify): (9) Unknown
46.	Automatic (Passive) Belt System Type (0) Not equipped/not available (1) Non-motorized system (2) Motorized system (9) Unknown	0	STOP - VARIABLES 50 THROUGH 52 ARE COMPLETED BY THE ZONE CENTER  TRAUMA DATA
47.	Proper Use of Automatic (Passive Belt System  (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat  Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person (6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt or automatic shoulder belt used improperly with child safety seat (specify): (8) Other improper use of automatic belt syste (specify): (9) Unknown	<u>O</u>	50. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured  51. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given (specify units): (9) Unknown if blood given  52. Arterial Blood Gases (ABG) - HCO <sub>3</sub> (00) Not injured (01) Injured, ABGs not measured or reported (02-50) Code the actual value of theHCO <sub>3</sub> (96) ABGs reported , HCO <sub>3</sub> unknown (97) Injured, details unknown (99) Unknown if injured
	ARE ALL APPLICABLE MEDICAL RIWITH INITIAL SUBMISSION?	ECOF	RDS INCLUDED NO[] YEST
	LIPDATE CANDIDA	TE2	NO [ ] VES [ ]

Administration

U.S. Department of Transportation National Highway Traffic Safety

OCCUPANT INJURY FORM

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number

3. Vehicle Number

2. Case Number - Stratum

4. Occupant Number

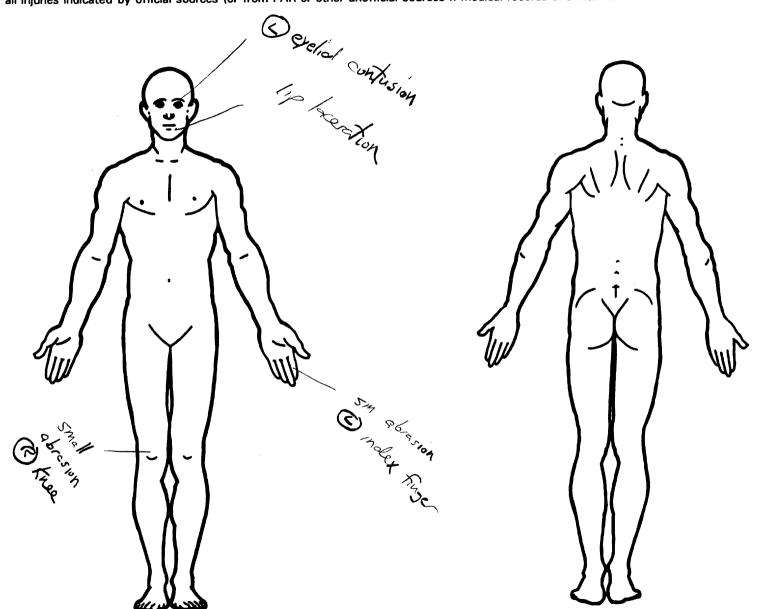
# **INJURY DATA**

Record below the actual injuries sustained by this occupant that were identified from the official and unofficial data sources. Remember not to double count an injury just because it was identified from two different sources. If greater than ten injuries have been documented, encode the balance on the Occupant Injury Supplement.

	Source of Injury Data	Body Region	Type of Anatomic Structure	Specific Anatomic	A.I.S Level of Injury	A.I.S. Severity	Aspect	Injury Source	Injury Source Confidenc Level	Direct/ e Indirect Injury	Occupant Area Intrusion Number
1st	5. 🔁	6. <u>A</u>	7. 9	8. <u>0 6</u>	9. <u>O</u> <u>Ə</u>	10. 👤	11. 💆	12. 97	13. 9	14	15. 99
2nd	16.2	17. 2	18.9	19. <u>7                                   </u>	<sub>20.</sub> <u>0</u> <u>2</u>	21	22. 2	23. <u>57</u>	24. 9	25. 7	26.99
3rd	27. <u>2</u>	28. 7	29. 9	30. <u>O</u> <u>2</u>	31. <u>02</u>	32	33.	34. <u>97</u>	35. <u>9</u>	36	37. <b>4 9</b>
4th	38.—	39. <u>Z</u>	40.9	41. <u>0</u> 2	42. <u>0</u> <u>2</u>	43. /	44	45. <u>9</u> 7	46.	47	48.99
5th	49. 2	50. 2	<sub>51.</sub> <u>5</u>	52. <u>/ 4</u>	53. <u>04</u>	54. 🔟	55.	56. 97	57. <u>9</u>	58	59.99
6th	60	61	62	63	64	65	66	67	68	69	70
7th	71	72	73	74	75	76	77	78	79	80	81
8th	82	83	84	85	86	87	88	89	90.	91	92
9th	93	94	95	96	97	98	99	100	101	102	103
10th	104	105	106	107	108	109	110	111	112	113	114

OCCUPANT INJURY DATA											
	Source of Injury Data	Body Region	Type of Anatomic Structure	O.I.CA. Specific Anatomic Structure		A.I.S. Severity	Aspect	Injury Source	Injury Source Confidence Level	Direct/ Indirect Injury	Occupant Area Intrusion Number
	Data	region	Ottuoturo						er e		
11th											
12th										-	
			1								
13th		<u> </u>		) <del>4 4 4</del> 6 6		<u> </u>					
14th						<u></u>	lan da <u>nta</u> da a Tanggaran				
15th											
15111		<del></del> -						wid <del>an iii</del> . Mata		·	
16th											*
17th				, 2011년 - 1일 12일 2012 <del>년 - 12일</del> (2021							
18th						<del></del>					
19th											
13111		ly distributed	분명 이 <del>스트</del> 라 기념 (2011년)								<del></del>
20th										· ·	
21st										4 <u>-</u>	
22nd	<u> </u>				<del></del>					<del></del> .	· ———
23rd											
Zora											
24th											
25th								للد عليه الراز		• • •	
1						sania, na ata					

Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)



#### **SOURCE OF INJURY DATA OFFICIAL**

- (1) Autopsy records with or without hospital/ medical records
- (2) Hospital/medical records other than emergency room (e.g., discharge summary)
- (3) Emergency room records only (including associated X-rays or other lab reports)
- Private physician, walk-in or emergency

#### UNOFFICIAL

- (5) Lay coroner report
- E.M.S. personnel
- Interviewee
- Other source (specify):
- (9) Police

#### **INJURY SOURCE**

#### **FRONT**

- (01) Windshield
- (02) Mirror
- (03) Sunvisor
- (04) Steering wheel rim
- (05) Steering wheel hub/spoke
- (06) Steering wheel (combination of codes 04 and 05)
- (07) Steering column, transmission selector lever, other attachment
- (80) Add on equipment (e.g., CB, tape deck, air conditioner)
- (09) Left instrument panel and below
- (10) Center instrument panel and below
- (11) Right instrument panel and below
- (12) Glove compartment door
- (13) Knee bolster
- (14) Windshield including one or more of the following: front header, A (A1/A2)-pillar, instrument panel, mirror, or steering assembly (driver side only)
- (15) Windshield including one or more of the following: front header, A (A1/A2)-pillar, instrument panel, or mirror (passenger side only)
- (16) Driver side air bag compartment cover
- (17) Passenger side air bag compartment cover
- (18) Windshield reinforced by exterior object (specify):
- (19) Other front object (specify):

#### LEFT SIDE

- (20) Left side interior surface, excluding hardware or armrests
- (21) Left side hardware or armrest
- (22) Left A (A1/A2)-pillar
- (23) Left B-pillar
- (24) Other left pillar (specify):

- (25) Left side window glass or frame
- (26) Left side window glass including one or more of the following: frame, window sill, A (A1/A2)-pillar, B-pillar, or roof side rail.
- (27) Other left side object (specify):
- (28) Left side window sill

#### RIGHT SIDE

- (30) Right side interior surface. excluding hardware or armrests
- Right side hardware or armrest
- (32) Right A (A1/A2)-pillar
- (33) Right B-pillar
- (34) Other right pillar (specify):
- Right side window glass or frame
- Right side window glass including one or more of the following: frame, window sill, A (A1/A2)-pillar, B-pillar, or roof side rail.
- (37) Other right side object (specify):
- (38) Right side window sill

#### INTERIOR

- (40) Seat, back support
- (41) Belt restraint webbing/buckle
- (42) Belt restraint B-pillar or door frame attachment point
- Other restraint system component (43)(specify):
- (44) Head restraint system
- Air bag (use codes "16" and "17" for injuries (45) sustained from air bag compartment covers)
- (46) Other occupants (specify):
- (47) Interior loose objects
- Child safety seat (specify): (48)
- (49) Other interior object (specify):

#### ROOF

- (50) Front header
- (51) Rear header
- (52) Roof left side rail Roof right side rail (53)
- (54) Roof or convertible top

#### FLOOR

- (56) Floor (including toe pan)
- (57) Floor or console mounted transmission lever, including console
- (58) Parking brake handle
- (59) Foot controls including parking

(60) Backlight (rear window)

- (61) Backlight storage rack, door, etc.
- (62) Other rear object (specify):

#### EXTERIOR of OCCUPANT'S VEHICLE

- (65) Hood
- (66) Outside hardware (e.g., outside mirror, antenna)
- (67) Other exterior surface or tires (specify):
- (68) Unknown exterior objects

#### **EXTERIOR OF OTHER MOTOR VEHICLE**

- (70) Front bumper
- (71) Hood edge
- (72) Other front of vehicle (specify):
- (73) Hood
- (74)Hood ornament
- (75)Windshield, roof rail, A-pillar
- (76)Side surface
- (77)Side mirrors
- (78) Other side protrusions (specify)
- (79) Rear surface
- (80) Undercarriage
- (81) Tires and wheels
- Other exterior of other motor vehicle (82)(specify):
- (83) Unknown exterior of other motor vehicle

#### OTHER VEHICLE OR OBJECT IN THE **ENVIRONMENT**

- (84) Ground
- (85) Other vehicle or object (specify)
- (86) Unknown vehicle or object

#### NONCONTACT INJURY

- (90) Fire in vehicle
- (91) Flying glass
- (92) Other noncontact injury source (specify):
- (93) Air bag exhaust gases
- (97) Injured, unknown source

#### INJURY SOURCE CONFIDENCE LEVEL

- (1)
- Certain (2) Probable
- (3) Possible
- (9) Unknown

#### **DIRECT/INDIRECT INJURY**

- Direct contact injury
- Indirect contact injury
- (3) Noncontact injury Injured, unknown source

#### OCCUPANT INJURY CLASSIFICATION

#### **Body Region**

- Head Face
- Neck
- (4) (5) Thorax Abdomen
- (8) Spine Upper Extremity (7)
- **Lower Extremity** Unspecified
- Whole Area
- Vessels Nerves
- (3) Organs (includes muscles/ ligaments)

Type of Anatomic Structure

- (6) Skeletal (includes joints)
- (6) Head - LOC

#### Specific Anatomic Structure

- Whole Area (02) Skin Abrasion (04) Skin Contusion
- Skin Laceration
- (08) Skin Avulsion (10)Amputation
- Burn
- 1301 Crush
- (40) Dealovina
- Injury NFS (90) Trauma, other than mechanical
- Head LOC (02) Length of LOC (04, 06, 08) Level of Consciousness

- (02) Cervical (04) Thoracic
- (06) Lumbar

# Vessels, Nerves, Organs. Bones, Joints are assigned consecutive two digit numbers beginning with 02

Level of Injury

Specific injuries are assigned consecutive two-digit numbers beginning with 02.

To the extent possible, within the organizational framework of the AIS, 00 is assigned to an injury NFS as to severity or where only one injury is given in the dictionary for that anatomic structure. 99 is assigned to any injury NFS as to lesion or severity.

#### Abbreviated Injury Scale

- Minor injury
- Moderate injury (2)
- (3) Serious injury
- (4) (5) Severe injury
- Critical injury (6)
- Maximum (untreatable) (7) Injured, unknown severity

#### Aspect

- Right
- **Bilateral**
- (3) (4) (5) Central
- Anterior (6) **Posterior**
- (7) Superior
- Ünknown
- (9) (O) Whole region

#### Restrained?

No

Yes

Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)

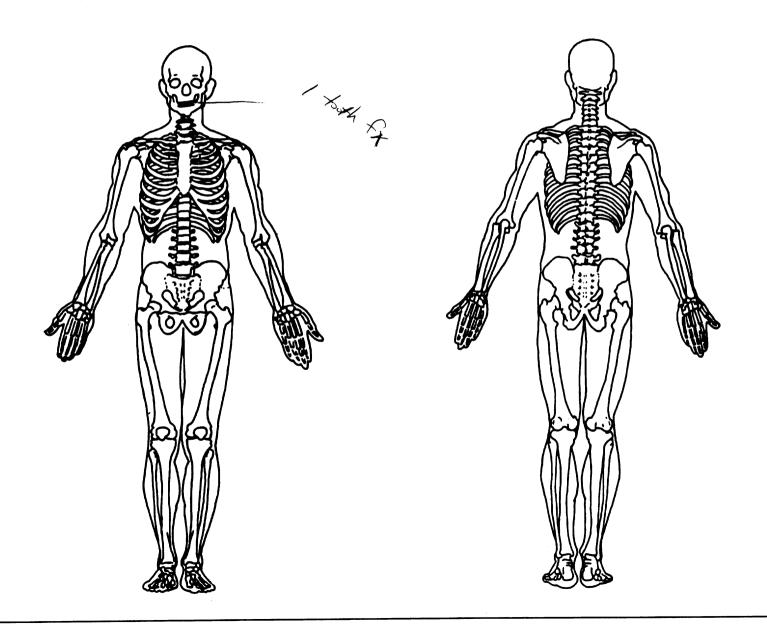
**Blood Alcohol** Level (mg/di)

Glasgow Coma Scale Score

Units of Blood Given

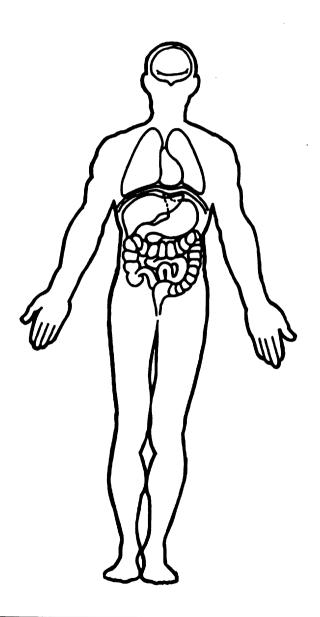
**Arterial Blood** Gases

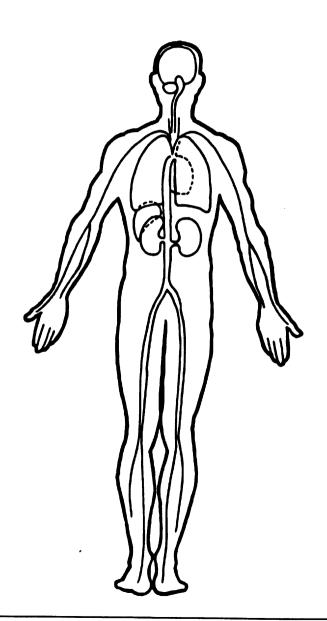




### OFFICIAL INJURY DATA - INTERNAL INJURIES

Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)







#### U.S. Department of Transportation

## CRASHPC PROGRAM SUMMARY

National Highway Traffic Safety

Administration		(All Measuremen	its in Metric)	CRASHWORTHINESS	
Identifying Title  7  Primary Sampling Unit	Z 5 3 /		dent Event Date	e (Month, day, year) of Run	74
CRASHPC Vehicle Iden	tification				
Vehicle 1	1986	Buick	<u> </u>	6re	01
Vehicle 2	1905	Ford	<u>Escon</u>		02
	Year	Make		Model	NASS Veh. No.
	GE	NERAL INF	ORMATION		
VE	HICLE I			/EHICLE 2	
Size		4	Size		1
Weight 102			Weight		
1433 + 91 + C		/_ kg		23 = 107	4 kg
Curb Occupant(s) Ca	rgo	, 1	•	Cargo	. 1 /1
CDC	Z F E E			D6 BDE	$\frac{\omega}{2}$
PDOF (-180 to +180)	- <u>O</u> ]	_ <i></i> °	PDOF (-180 to +180	)	7 <u>0 °                                   </u>
Stiffness		7	Stiffness		
	S	CENE INFO	RMATION		
Rest and Impact Position	ons I No. Go To	Damage Inform	nation [ ] Yes		
	HICLE 1			/EHICLE 2	
_					
Position	X	m	Rest Position	Х	m
	Υ	m		Υ	m
	PSI	o		PSI	°
Impact Position	X	m	Impact	X	m
Position	Υ	m	Position	Υ	m
	PSI	О		PSI	o
Slip Angle(-180 to +18	30)	o	Slip Angle (-180 to +	180)	o
		VEHICLE N	MOTION	Management of the second of th	
Sustained Contact [	No [ ] Yes				
	HICLE 1		V	/EHICLE 2	
Skidding (Rotation)	I INO	l ] Yes	Skidding (Rotation)	r nai≃	r 200
Skidding Stop Befo	The state of the s	[ ] Yes	Skidding Stop Bet		[ ] Yes
End of Rotation	x	. m	End of Rotation	x	. m
Position	Υ		Position	Υ	
	PSI	0		PSI	0
Curved Path	I ] No	[ ] Yes	Curved Path	r tal	- 1 V
Point on Path			Point on Path	[ ] No	ı ı res
	m Y	m	X	m Y	. m
Rotation Direction [ Rotation > 360° [	] None [ ] CW [ ] No [ ] Yes	) CCW	Rotation Direction [ Rotation > 360°		

National Accident Sampling System-Crashworthiness Data System: CRASHPC Program Summary

FRICTION IN	<b>IFORMATION</b>	TRAJECTOR	Y INFORMATION	
Coefficient of Friction		Trajectory Data [		
Rolling Resistance Option		If No, Go To Damage		
	announced in the	Vehicle 1 Steer Angle		
Vehicle 1 Rolling Resi	stance		° RF	o
LF	RF		° RR	
l .	RR		The second secon	
		Vehicle 2 Steer Angle	es.	
Vehicle 2 Rolling Resi		LF	° RF	0
LF	RF	LR	° RR	0
LR	RR			
		Terrain Boundary [	]No [ ]Yes	
		First Point		
		X m	Y	m
		Second Point		
		i	Y	. m
			of Friction	
	DAMAGE IN	IFORMATION		
VEHI	CLE 1	VE	EHICLE 2	
Damage Length	L 175 cm		1 160	cm
Damage Length  Crush Depths	L <u>175</u> cm		L 169	
		Damage Length	c, 06	6 cm
	C, <u>OOO</u> cm	Damage Length	c, 06 c, 06	cm cm
	C <sub>1</sub>	Damage Length	c, 06 c, 06 c, 06	6 cm / cm 2 cm
	$\begin{array}{cccc} C_1 & \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc & cm \\ C_2 & \bigcirc \bigcirc \bigcirc \bigcirc & cm \\ C_3 & \bigcirc \bigcirc \bigcirc \bigcirc & cm \end{array}$	Damage Length	c, 06 c, 06	6 cm / cm 2 cm 3 cm
	$C_1$ $OOO_{cm}$ $C_2$ $OOO_{cm}$ $C_3$ $OOO_{cm}$ $C_4$ $OIS$ $cm$	Damage Length	C <sub>1</sub> 06 C <sub>2</sub> 06 C <sub>3</sub> 06 C <sub>4</sub> 06 C <sub>6</sub> 03	6 cm / cm 2 cm 3 cm 6 cm
	$C_1$ $OOO$ cm $C_2$ $OOO$ cm $C_3$ $OOO$ cm $C_4$ $OIS$ cm $C_6$ $OZI$ cm $C_6$ $OZY$ cm	Damage Length	c, 06 c, 06 c, 06 c, 06	6 cm / cm 2 cm 3 cm 6 cm
	$C_{1}$ $OOO_{cm}$ $C_{2}$ $OOO_{cm}$ $C_{3}$ $OOO_{cm}$ $C_{4}$ $OIS_{cm}$ $C_{6}$ $OZI_{cm}$	Damage Length	C <sub>1</sub> 06 C <sub>2</sub> 06 C <sub>3</sub> 06 C <sub>4</sub> 06 C <sub>6</sub> 03	cm cm 2 cm 3 cm cm cm
Crush Depths	$C_1$ $OOO$ cm $C_2$ $OOO$ cm $C_3$ $OOO$ cm $C_4$ $OIS$ cm $C_6$ $OZI$ cm $C_6$ $OZY$ cm	Damage Length  Crush Depths	C <sub>1</sub> 06 C <sub>2</sub> 06 C <sub>3</sub> 06 C <sub>4</sub> 06 C <sub>6</sub> 03 C <sub>6</sub> 02	cm cm 2 cm 3 cm cm cm
Crush Depths  Damage Offset	$C_1$ $OOO$ cm $C_2$ $OOO$ cm $C_3$ $OOO$ cm $C_4$ $OIS$ cm $C_6$ $OZI$ cm $C_6$ $OZY$ cm	Damage Length  Crush Depths  Damage Offset	C <sub>1</sub> 06 C <sub>2</sub> 06 C <sub>3</sub> 06 C <sub>4</sub> 03 C <sub>6</sub> 03 C <sub>6</sub> 02	6 cm 7 cm 7 cm 8 cm 7 cm 7 cm
Crush Depths  Damage Offset  IF THIS COMMON IMPAC	C <sub>1</sub>	Damage Length  Crush Depths  Damage Offset	C <sub>1</sub> 06 C <sub>2</sub> 06 C <sub>3</sub> 06 C <sub>4</sub> 06 C <sub>6</sub> 03 C <sub>6</sub> 02	cm cm cm cm cm cm cm
Crush Depths  Damage Offset  IF THIS COMMON IMPAC  Model Year:	$C_1$ $OOO$ cm $C_2$ $OOO$ cm $C_3$ $OOO$ cm $C_4$ $OIS$ cm $C_6$ $OZI$ cm $C_6$ $OZI$ cm $C_6$ $OZY$ cm	Damage Length  Crush Depths  Damage Offset  E NOT IN TRANSPORT, FILL  The Weight, CDC, Scene	C <sub>1</sub> 06 C <sub>2</sub> 06 C <sub>3</sub> 06 C <sub>4</sub> 06 C <sub>6</sub> 03 C <sub>6</sub> 02 D • 03	cm cm cm cm cm cm cm
Crush Depths  Damage Offset  IF THIS COMMON IMPAC  Model Year: Make:	C <sub>1</sub>	Damage Length  Crush Depths  Damage Offset	C <sub>1</sub> 06 C <sub>2</sub> 06 C <sub>3</sub> 06 C <sub>4</sub> 06 C <sub>6</sub> 03 C <sub>6</sub> 02 D • 03	cm cm cm cm cm cm cm
Crush Depths  Damage Offset  IF THIS COMMON IMPAC  Model Year: Make: Model:	$C_1$ $OOO$ cm $C_2$ $OOO$ cm $C_3$ $OOO$ cm $C_4$ $OIS$ cm $C_6$ $OZI$ cm $C_6$ $OZY$ cm $C_9$ $OYS$ cm	Damage Length  Crush Depths  Damage Offset  E NOT IN TRANSPORT, FILL  The Weight, CDC, Scene	C <sub>1</sub> 06 C <sub>2</sub> 06 C <sub>3</sub> 06 C <sub>4</sub> 06 C <sub>6</sub> 03 C <sub>6</sub> 02 D • 03	cm cm cm cm cm cm cm
Crush Depths  Damage Offset  IF THIS COMMON IMPAC  Model Year: Make: Model:	C <sub>1</sub>	Damage Length  Crush Depths  Damage Offset  E NOT IN TRANSPORT, FILL  The Weight, CDC, Scene	C <sub>1</sub> 06 C <sub>2</sub> 06 C <sub>3</sub> 06 C <sub>4</sub> 06 C <sub>6</sub> 03 C <sub>6</sub> 02 D • 03	cm cm cm cm cm cm cm
Crush Depths  Damage Offset  IF THIS COMMON IMPAC  Model Year: Make: Model: VIN:	$C_1$ $OOO$ cm $C_2$ $OOO$ cm $C_3$ $OOO$ cm $C_4$ $OIS$ cm $C_6$ $OZI$ cm $C_6$ $OZY$ cm $C_9$ $OYS$ cm	Damage Length  Crush Depths  Damage Offset  E NOT IN TRANSPORT, FILL  The Weight, CDC, Scene for this vehicle should be	C <sub>1</sub> O 6 C <sub>2</sub> O 6 C <sub>3</sub> O 6 C <sub>4</sub> O 6 C <sub>6</sub> O 3 C <sub>6</sub> O 2  IN THE INFORMATION E  P Data and Damage Informer recorded above.	cm cm cm cm cm cm cm

INPUT CALCULATE TRAJECTORY OUTPUT GRAPHICS EXIT

## SUMMARY OF CRASHPC RESULTS USING DAMAGE

File name missing or blank - please enter file name 72253K ACCIDENT EVENT NUMBER 01

SPEED CHANGE (DAMAGE)

VEHICLE #1

 TOTAL
 28 KPH ( 18 MPH)

 LONGITUDINAL
 -28 KPH ( -17 MPH)

 LATITUDINAL
 -5 KPH ( -3 MPH)

 PDOF ANGLE
 10 DEGREES

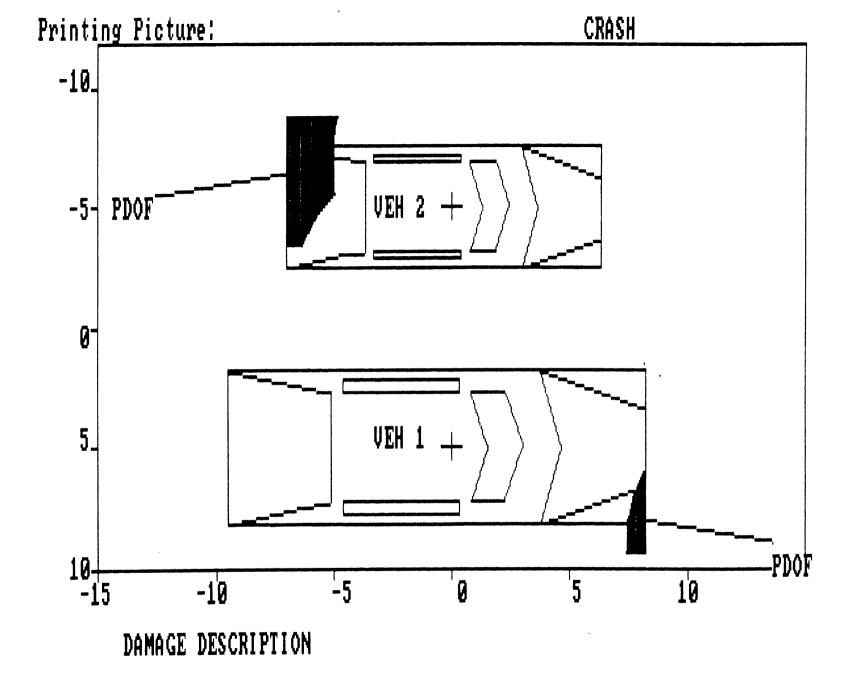
ENERGY DISSIPATED = 30433 JOULES ( 22443 FT-LB)

VEHICLE #2

TOTAL 43 KPH ( 27 MPH)
LONGITUDINAL 42 KPH ( 26 MPH)
LATITUDINAL -7 KPH ( -5 MPH)
PDOF ANGLE 170 DEGREES

ENERGY DISSIPATED = 135384 JOULES ( 99841 FT-LB)

PRESS ANY KEY TO CONTINUE



	INPUT	CALCULATE	TRAJECTORY	OUTPUT	GRAPHICS	EXIT	
- [1	<u> </u>						١i

VEHICLE #1

### DAMAGE DATA

SIZE CATEGORY	4	1.
STIFFNESS CATEGORY	Э	1
VEHICLE WEIGHT	1631 KGS ( 3596 LBS)	1074 KGS ( 2368 LBS)
CDC	12FZEW2	O6BDEW4
FDOF ANGLE	10 DEGREES	170 DEGREES
CRUSH LENGTH	175 CM. ( 69 IN.)	160 CM. ( 63 IN.)
C1	O CM. ( O IN.)	66 CM. ( 26 IN.)
C2	O CM. ( O IN.)	61 CM. ( 24 IN.)
C3	0 CM. ( 0 IN.)	62 CM. ( 24 IN.)
C4	15 CM. ( 6 IN.)	63 CM. ( 25 IN.)
C.S	21 CM. ( 8 IN.)	38 CM. ( 15 IN.)
C6	24 CM. ( 9 IN.)	21 CM. ( 8 IN.)
D	45 CM. ( 18 IN.)	-33 CM. ( -13 IN.)
D'	92 CM. ( 36 IN.)	-43 CM. ( -17 IN.)

(\* INDICATES DEFAULT VALUE) PRESS ANY KEY TO CONTINUE

VEHICLE #2

INPUT	CALCULATE	TRAJECTORY	OUTPUT	GRAPHICS	EXIT	1
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### DIMENSIONS AND INERTIAL PROPERTIES

	VEHICLE #1	VEHICLE #2
CG TO FRONT AXLE	139 CM. ( 55 IN.)	115 CM. ( 45 IN.)
OG TO REAR AXLE	150 CM. ( 59 IN.)	122 CM. ( 48 IN.)
TRACK	157 CM. ( 62 IN.)	130 CM. ( 51 IN.)
CG TO FRONT OF VEH	251 CM. ( 99 IN.)	193 CM. ( 76 IN.)
CG TO REAR OF VEH	-290 CM. (-114 IN.)	-213 CM. ( -84 IN.)
CG TO SIDE OF VEH	98 CM. ( 39 IN.)	77 CM. ( 30 IN.)
MOMENT OF INERTIA	15865 KGS ( 34975 LBS)	5602 KGS ( 12350 LBS)
VEHICLE MASS	4 KGS ( 9 LBS)	3 KGS ( 6 LBS)

PRESS ANY KEY TO CONTINUE

INPUT CALCULATE TRAJECTORY OUTPUT GRAPHICS EXIT

TITLE

72253K ACCIDENT EVENT NUMBER 01 94

### GENERAL INFORMATION

VEHICLE #1				
SIZE	4			
WEIGHT	1631.			
CDC	12FZEW2			
PDOF	10.00			
STIFFNESS	9			
CANCEL	ACCEPT			

VEHICLE #2				
SIZE	1.			
WEIGHT	1074.			
CDC	06BDEW4			
FDOF	170.0			
STIFFNESS	1			
CANCEL	ACCEPT			

METRIC INPUT

### DAMAGE INFORMATION

VEHICLE #	1 `
DAMAGE LENGTH	175.0
CRUSH DEPTHS	
01	.000
02	.000
03	.000
04	15.00
C5	21.00
06	24.00
DAMAGE OFFSET	45.00
CANCEL	ACCEPT

VEHICLE #2	
DAMAGE LENGTH	160.0
CRUSH DEPTHS	
C1	66.00
<b>∥</b> c2	61.00
∥ сз	62.00
<b>∥</b> C4	63.00
D C5	38.00
C6	21.00
DAMAGE OFFSET	-33.00
CANCEL	ACCEPT

METRIC INPUT

722 <b>53</b> K00000011 <b>#</b>	936.020000	00000000206250000001	94 93001837000
003468000006371			
- 72253K00010012	936.021000	00000000104F0201B	
72253K01000021	6.02 000	000000 <mark>08618</mark> 00204164HP69L	5GH <b>44</b> 19990960899820102021
4400000000008509	01028-028-00	050304210	
72253K01000022	6.02 000	000000000000000000000000000000000000000	00000000015021
72253K01000031	6.02 000	0000000010212FZEW02	17500000000015021024+
045		012810001	
72253K01000041	6.02 000	000000000113100000020000	080000000001000000010000000
72253K01000042	6.02 000	000000	
1		000167080	
72253K01010051	6.02 000	00000059118309111100000	040000000530410000000000000000
00000000000000000			
72253K01020051	6.02 000	00000032118810221300000	04000000053041000000000000000
000000000000000000000000000000000000000			
72253K02000021	6.02 000	00000008512013061FABP3494	4FW 10001270890121101010
9900200000009008			
722 <b>5</b> 3K02000022	6.02 000	00000000010101010101010101	01 300000000045200
72253K02000031		000000010106BDEW04	160066061062063038021-
033		012390001	
72253K02000041	6.02 000	/000000113333300000200006	586000000001000020110000101
72253K02000042		000000098255221193223202	2212022222022
1		000123080	
72253K02010051	6.02 000	0000000171163064111016320	04000000013015000000000000331
01050000000000500			
72253K02010161		000000229060218979799	
72253K02010261		000000229740212979799	
72253K02010361		000000279020212979799	
72253K02010461		000000289020211979799	
72253K02010561		000000225140418979799	
	υσοσσσοσοσ	.nnnnnnnnnnnnnnnnnnnnnnnnnnnnnn	000000000000000000000000000000000000000

PSU72

ERROR SUMMARY SCREEN

/9.

CASE 253K

CURRENT VERSION: 6.02

FORM NAME	NUMBER OF DOLLAR SIGNS	NUMBER OF LEVEL 1 ERRORS	NUMBER OF LEVEL 2 ERRORS	VERSION NUMBER CONSISTENT
Accident	0	0	0	<b>V</b>
General Vehicle	Ö	Ö	Ŏ	Ÿ
Vehicle Exterior	0	Ö	Ö	Ÿ
Vehicle Interior	0	Ö	ō	Ý
Occupant Assesment	0	0	Ö	Ý
Occupant Interior	О	o	ō	Ý
Total Inter Errors		o	o	
Total Case Errors	O	o	o	Sincil

### **SLIDE INDEX**

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

Primary Sampling Unit Number - 72 Case Number Stratum 7 5 3 1					
Slide No.	Vehicle No.	Direction of View	Description of Slide Subject Matter		
1-4	V 1	east	Approach Views		
NIA	V1	NIA	Scene Evidence		
5	V1	west	Look Back View		
6-9	V 2	£45+	Approach Views		
N/9	V 2	214	Scene Evidence		
10-11	V 2	west	Look Back View		
12-20	V 1	EXTERIOR	Front Views		
21-23	V1		Front Left 45°		
24-26	V1		Left Side		
27	V1		Back Left 45°		
28-30	V1		Back Views		
3/	V1		Back Right 45°		
32-3 <b>5</b>	V1		Right Side		
36 - 37	V1		Right Front 45°		
NM	V1		Top Views		
38-41	V1	INTERIOR	In Left Front Door		
42-43	V1		Steering Column Views		
44	V1		Seat Area 11		
	V1		Contact Points		
45	V1		Seat Area 12		
46	V1		Contact Points		
47	V1		Seat Area 13		
	V1		Contact Points		
48-51	V 1		In Right Front Door		
52-53	V1		In Left Rear Door		

Slide No.	Vehicle No.	Direction of View	Description of Slide Subject Matter
54	V1		Seat Area 21, 22, 23
55-57	V 1		In Right Rear Door
58-65	<b>V</b> 2	EXTERIOR	Front Views
NA	V 2		Front Left 45°
C6-68	V 2		Left Side
61-71	<b>V</b> 2		Back Left 45°
72 - 79	V 2		Back Views
६०- १।	V 2		Back Right 45°
82-25	V 2		Right Side
86	V 2		Right Front 45°
a lA	V 2		Top Views
87-14	V 2	INTERIOR	In Left Front Door
95	V 2		Steering Column Views
96	V 2		Seat Area 11
2/4	V 2		Contact Points
97	<b>V</b> 2		Seat Area 12
nla	<b>V</b> 2		Contact Points
98	<b>V</b> 2		Seat Area 13
NA-	V 2		Contact Points
99	<b>V</b> 2		In Right Front Door
100-102	V 2		Seat Area 21, 22, 23 was exected Fr
	V 2		Seat Area 21, 22, 23 was excel Fr
	V 2		In Right Rear Door

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K(1993)#14















































53K (1993) #3





Available





53K (1993)



Available





















?-253K (1993)#





K (1993) #54

















ISK (1993) #62









PSU 72-253K (1993) #66































































3K (1993)#97



3K (1993)#5







